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OM protein - protein search, using sw model

Run on: February 23, 2006, 12:00:35 ; Search time 187 Seconds  
(without alignments)  
636.747 Million cell updates/sec

Title: US-10-620-562-2  
Perfect score: 1426  
Sequence: 1 MAPRALPGSAVLAANVFVGG.....ETVNGEVPATVVKRSRGTE 271

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : A\_Geneseq\_21.\*

- 1: Geneseqp1980s.\*
- 2: Geneseqp1990s.\*
- 3: Geneseqp2000s.\*
- 4: Geneseqp2001s.\*
- 5: Geneseqp2002s.\*
- 6: Geneseqp2003as.\*
- 7: Geneseqp2003bs.\*
- 8: Geneseqp2004s.\*
- 9: Geneseqp2005s.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1426	100.0	271	5	Aae20962 Human TR2
2	1426	100.0	271	7	ADI21099 Novel hum
3	1421	99.6	271	4	AAB88406 Human mem
4	1421	99.6	271	9	ADY63175 Human clo
5	811	56.9	195	4	AAM23972 Human EST
6	811	56.9	195	7	ADI21579 Novel hum
7	477.5	33.5	103	2	AAW88579 Secreted
8	477.5	33.5	103	4	ABB50346 Human sec
9	477.5	33.5	103	6	ABO44603 Novel hum
10	477.5	33.5	103	7	ABO26083 Human pro
11	332	23.3	181	4	ABB50685 Human sec
12	332	23.3	181	5	AAE20965 Human TR2
13	332	23.3	181	6	ABO44942 Novel hum
14	332	23.3	181	7	ABO26422 Protein a
15	310	21.7	382	8	ADP29453 Human sec
16	310	21.7	382	8	ADP29451 Human sec
17	307	21.5	408	2	AAI41111 Human TAN
18	307	21.5	430	3	AAI41110 Human TAN
19	307	21.5	430	3	AAI70785 Human tum
20	307	21.5	430	4	AAE05517 Human tum
21	307	21.5	430	4	AAU09901 Human tum
22	307	21.5	430	5	ABG31739 Human TR4
23	307	21.5	430	6	ADA83983 Human TNF
24	307	21.5	430	8	ABO84934 Human can

25	307	21.5	430	8	ABM81290	Abm81290 Tumour-as
26	307	21.5	430	9	ADZ13510	Adz13510 Human can
27	307	21.5	430	9	ADZ13516	Adz13516 Human can
28	307	21.5	457	9	ADZ13508	Adz13508 Human can
29	307	21.5	878	4	AAE02358	Aae02358 Human tum
30	296	20.8	429	7	ADC52548	Adc52548 human den
31	296	20.8	430	4	AAB95627	Aab95627 Human pro
32	296	20.8	430	5	ABG31740	Abg31740 Human TR4
33	296	20.8	430	6	ABP70909	Abp70909 Human obe
34	295.5	20.7	317	9	ADZ13501	Adz13501 Murine ca
35	295.5	20.7	359	8	ABO84931	AbO84931 Murine ca
36	295.5	20.7	429	9	ADZ13503	Adz13503 Mouse tum
37	295.5	20.7	436	4	AAE05518	Aae05518 Mouse tum
38	284	19.9	303	4	AAM93499	Aam93499 Human pro
39	284	19.9	303	8	ADL31172	Adl31172 Human, pol
40	281.5	19.7	245	6	ABR43195	AbR43195 Human REM
41	281	19.7	294	4	AAU87162	Aau87162 Novel Cen
42	281	19.7	294	8	ADI54477	Adi54477 Novel hum
43	278.5	19.5	194	5	AAE20963	Aae20963 Human sec
44	278	19.5	339	8	ADP29463	Adp29463 Human sec
45	240	16.8	266	8	ADP29422	Adp29422 Human sec

ALIGNMENTS

RESULT 1

AAE20962  
ID AAE20962 standard; protein; 271 AA.

XX AC AAE20962;

XX DT 01-JUL-2002 (first entry)

XX DE Human TR21 receptor protein.

KW Human; tumour necrosis factor receptor; TNF; TR21; TR22; immune disorder;  
KW autolymune haemolytic anaemia; rheumatoid arthritis; Addison's disease;  
KW allergy; cancer; ulcerative colitis; cardiovascular disorder; epilepsy;  
KW myocardial ischaemia; wound healing; neurological disease; infection;  
KW cerebral anoxia; gene therapy; immunosuppressive; antiproliferative;  
KW cytosstatic; cardiac; vasotropic; neuroprotective; antibacterial;  
KW virucide; fungicide; nootropic; ophthalmological.

XX OS Homo sapiens.

Key Peptide	Location/Qualifiers
FT 1..29	/label= Signal_peptide
FT 29..56	/label= Immunogenic_epitope
FT 30..271	/label= Mature_TR21_protein
FT 81..87	/label= Immunogenic_epitope
FT 109..116	/label= Immunogenic_epitope
FT 142..149	/label= Immunogenic_epitope
FT 168..173	/label= Immunogenic_epitope
FT 192..199	/label= Immunogenic_epitope
FT 204..218	/label= Immunogenic_epitope
FT 233..238	/label= Immunogenic_epitope
FT 262..271	/label= Immunogenic_epitope

WO200207762-A1.

31-JAN-2002.



AAB88406  
ID AAB88406 standard; protein; 271 AA.  
XX AAB88406;  
AC  
XX  
DT 23-MAY-2001 (first entry)  
XX  
DE Human membrane or secretory protein clone PSEC0162.  
XX  
KW Human; secretory protein; membrane protein; vaccine; gene therapy;  
KW rheumatoid arthritis; diabetes.  
XX  
OS Homo sapiens.  
XX  
PN EPI067182-A2.  
XX  
PD 10-JAN-2001.  
XX  
PP 07-JUL-2000; 2000EP-00114090.  
XX  
PR 08-JUL-1999; 99JP-00194179.  
PR 11-JAN-2000; 2000JP-00118775.  
PR 02-MAY-2000; 2000JP-00183766.  
XX  
PA (HELI-) HELIX RES INST.  
XX  
PI Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;  
XX  
DR WPI; 2001-093989/11.  
XX  
DR N-PSDB; AAF93833.  
XX  
PT Nucleic acids encoding secretory proteins/membrane proteins, useful in  
PT gene therapy or as candidate target molecules in drug development.  
XX  
XX  
PS Claim 1; SEQ ID NO 180; 609pp + Sequence Listing; English.  
XX  
XX This invention relates to nucleic acid sequences AAF93744 - AAF93916  
CC which encode human secretory or membrane proteins represented by AAB88317  
CC - AAB88419. Included in the invention are primers AAF93917 - AAF94295 and  
CC AAF62232 - AAF62235 which are used to isolate the cDNA sequences of the  
CC invention. The invention also includes methods for the production of  
CC antibodies directed against the proteins, and cDNA sequences, which can  
CC be used in vaccines. The polynucleotide sequences can be used in gene  
CC therapy. The polynucleotide sequences and the proteins they encode may be  
CC used in the prevention, treatment and diagnosis of diseases associated  
CC with inappropriate secretory protein/membrane protein expression. The  
CC nucleic acids and complementary sequences may also be used as DNA probes  
CC in diagnostic assays (e.g. polymerase chain reactions (PCR)) to detect  
CC and quantitate the presence of similar nucleic acid sequences in samples.  
CC They may also be used to study the expression and function of secretory  
CC proteins/membrane polypeptides and their role in metabolism. The  
CC polypeptides may be used as antigens in the production of antibodies  
CC against them and in assays to identify modulators (agonists and  
CC antagonists) of expression and activity. The antibodies and antagonists  
CC may also be used as therapeutic agents to down regulate expression and  
CC activity. The antibodies may also be used as diagnostic agents for  
CC detecting the presence of the polypeptides in samples (e.g. by enzyme  
CC linked immunosorbent assay (ELISA). Examples of diseases which may be  
CC treated include rheumatoid arthritis and diabetes  
XX  
SQ Sequence 271 AA;  
  
Query Match 99.6%; Score 1421; DB 4; Length 271;  
Best Local Similarity 99.6%; Pred. No. 3.1e-120;  
Matches 270; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1 MAPRALPGSAVLAAAVFVGAVSSPLVAPDNGSSRLHSRTTETTPSPSNDTGNHPEYIA 60  
DB 1 MAPRALPGSAVLAAAVFVGAVSSPLVAPDNGSSRLHSRTTETTPSPSNDTGNHPEYIA 60  
  
QY 61 YALVPVFFMGLFVLICLLKKKRGYRCCTEASQDIEEEKVEKIELNDSVNENSDTVGQI 120  
DB 61 YALVPVFFMGLFVLICLLKKKRGYRCCTEASQDIEEEKVEKIELNDSVNENSDTVGQI 120

121 VHYIMKNEANADVLKAMVADNSLYDPESPVTPTSGSPPPVSPGPLSPGCTPGKIVCGHHL 180  
121 VHYIMKNEANADVLKAMVADNSLYDPESPVTPTSGSPPPVSPGPLSPGCTPGKIVCGHHL 180  
181 HTVGGVVERDVCHRCRKHWHFIPKPTNKSRESRRPRQGEVTVLSVGRPRVTKVBEHKSQK 240  
181 HTVGGVVERDVCHRCRKHWHFIPKPTNKSRESRRPRQGEVTVLSVGRPRVTKVBEHKSQK 240  
241 ERRSLMSVSGAETVNGEVPATPVKRSRGTE 271  
241 ERRSLMSVSGAETVNGEVPATPVKRSRGTE 271  
  
RESULT 4  
ADY63175  
ID ADY63175 standard; protein; 271 AA.  
XX  
AC ADY63175;  
XX  
DT 02-JUN-2005 (first entry)  
XX  
DE Human clone PSEC0162 protein, SEQ ID 180.  
XX  
KW Gene therapy.  
XX  
OS Homo sapiens.  
XX  
PN EPI514933-A1.  
XX  
PD 16-MAR-2005.  
XX  
PF 07-JUL-2000; 2004EP-00027228.  
XX  
PR 08-JUL-1999; 99JP-00194179.  
PR 11-JAN-2000; 2000JP-00118775.  
PR 02-MAY-2000; 2000JP-00183766.  
PR 07-JUL-2000; 2000EP-00114090.  
XX  
PA (REAS-) RES ASSOC BIOTECHNOLOGY.  
XX  
PI Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;  
XX  
DR WPI; 2005-203865/22.  
DR N-PSDB; ADY63174.  
XX  
PT Novel isolated polynucleotide encoding human secretory proteins or  
PT membrane proteins, useful for examination and diagnosis of abnormality of  
PT human secretory proteins.  
XX  
PS Disclosure; SEQ ID NO 180; 1240pp; English.  
XX  
CC The present invention relates to novel human secretory proteins or  
CC membrane proteins, and their coding sequences. The present sequence is  
CC one such protein sequence. The coding sequences of the invention are  
CC useful for examination and diagnosis of abnormality of the human  
CC secretory proteins and in gene therapy methods. The coding sequences and  
CC proteins are useful as candidates for medicines or as target molecules  
CC for developing medicines. Antibodies against the proteins of the  
CC invention are useful for treating diseases that are associated with the  
CC proteins. Note: The sequence data for this patent did not form part of  
CC the printed specification, but was obtained from sequence information  
CC supplied by the European Patent Office.  
XX  
SQ Sequence 271 AA;  
  
Query Match 99.6%; Score 1421; DB 9; Length 271;  
Best Local Similarity 99.6%; Pred. No. 3.1e-120;  
Matches 270; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1 MAPRALPGSAVLAAAVFVGAVSSPLVAPDNGSSRLHSRTTETTPSPSNDTGNHPEYIA 60  
DB 1 MAPRALPGSAVLAAAVFVGAVSSPLVAPDNGSSRLHSRTTETTPSPSNDTGNHPEYIA 60





XX	SQ	Sequence 195 AA;
	Query Match	56.9%; Score 811; DB 7; Length 195;
	Best Local Similarity	99.4%; Pred. No. 4.3e-65;
	Matches 157; Conservative	0; Mismatches 1; Indels 0; Gaps 0
Qy	1	MAPRALPGSAVLAIAAVFVGGAVSPLVAPDNGSSRTLHSRTTTPSPNSDGTGNGHPEYIA 60
Db	1	MAPRALPGSAVLAIAAVFVGGAVSPLVAPDNGSSRTLHSRTTTPSPNSDGTGNGHPEYIA 60
Qy	61	YALVPVPSFIMGLFGVLICHLLKKGYRCTTEAEODIEEEKVEKIELDENVNSDVTVCQI 120
Db	61	YALVPVPSFIMGLFGVLICHLLKKGYRCTTEAEQDIEEEKVEKIELDENVNSDVTVCQI 120
Qy	121	VHYIMKNEANADVLIKAVADNSLYDPSPVPTPGSP 158
Db	121	VHYIMKNEANADVLIKAVADNSLYDPSPVPTPGEP 158
RESULT 7		
AAW88579	ID	AAW88579 standard; protein; 103 AA.
XX	AC	AAW88579;
XX	DT	01-MAR-1999 (first entry)
XX	DE	Secreted protein encoded by gene 46 clone HCFMV39.
KW		Human; secreted protein; fusion protein; gene therapy; protein therapy;
KW		diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;
KW		developmental abnormality; fetal deficiency; blood; allergy; renal;
KW		immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;
KW		inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;
KW		cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;
KW		osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
KW		endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
OS		Homo sapiens.
XX	PN	WO9854963-A2.
XX	PD	10-DEC-1998.
XX	PF	04-JUN-1998; 98WO-US011422.
XX	PR	06-JUN-1997; 97US-0048875P.
PR		06-JUN-1997; 97US-0048876P.
PR		06-JUN-1997; 97US-0048877P.
PR		06-JUN-1997; 97US-0048878P.
PR		06-JUN-1997; 97US-0048880P.
PR		06-JUN-1997; 97US-0048881P.
PR		06-JUN-1997; 97US-0048882P.
PR		06-JUN-1997; 97US-0048883P.
PR		06-JUN-1997; 97US-0048884P.
PR		06-JUN-1997; 97US-0048885P.
PR		06-JUN-1997; 97US-0048882P.
PR		06-JUN-1997; 97US-0048893P.
PR		06-JUN-1997; 97US-0048894P.
PR		06-JUN-1997; 97US-0048895P.
PR		06-JUN-1997; 97US-0048896P.
PR		06-JUN-1997; 97US-0048897P.
PR		06-JUN-1997; 97US-0048898P.
PR		06-JUN-1997; 97US-0048899P.
PR		06-JUN-1997; 97US-0048900P.
PR		06-JUN-1997; 97US-0048901P.
PR		06-JUN-1997; 97US-0048915P.
PR		06-JUN-1997; 97US-0048916P.
PR		06-JUN-1997; 97US-0048917P.
PR		06-JUN-1997; 97US-0048949P.
PR		06-JUN-1997; 97US-0048962P.
PR		06-JUN-1997; 97US-0048963P.

useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. Pathological conditions can be also diagnosed by determining the amount of the new polypeptides in a sample or by determining the presence of mutations in the new polynucleotides. Specific uses are described for each of the polynucleotides, based on which tissues they are most highly expressed in, and include developing products for the diagnosis or treatment of cancer, neurodegenerative disorders, developmental abnormalities and foetal deficiencies, blood disorders, tumours, leukemias, diseases of the immune system, autoimmune diseases, hepatic and renal disease, lymphomas, inflammation, allergies, ischemic shock, Alzheimer's and cognitive disorders, schizophrenia, restenosis, prostate diseases, obesity, disorders involving osteoclasts such as osteoporosis, arthritis or malignancies, diseases of testes, lung or thymus, digestive/endocrine disorders, infections and AIDS. The polypeptides are also useful for identifying their binding partners. The present sequence represents human secreted protein (see descriptor line for gene number and clone identification)

XX Sequence 103 AA;

Query Match 33.5%; Score 477.5; DB 2; Length 103;  
Best Local Similarity 95.0%; Pred. No. 3.3e-35;  
Matches 96; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 1 MAPRALPGSAVLAAAVFVGAVSPLVAPDNGSSRTLHSRTTTPSPSNDTGNHPEYIA 60  
|||||  
DB 1 MAPRALPGSAVLAAAVFVGAVSPLVAPDNGSSRTLHSRTTTPSPSNDTGNHPEYIA 60  
|||||  
QY 61 YALVPVFFIMGLFGVLIC-HLLKKKGYRCTTEAEQDIEEEK 100  
|||||  
DB 61 YALVPVFFIMGLFGVLIXPXXXXKKGYRCTTEAEQDIEEEK 101  
|||||

RESULT 8  
ABB50346  
ID ABB50346 standard; protein; 103 AA.

XX AC ABB50346;  
XX DT 07-FEB-2002 (first entry)  
XX DE Human secreted protein encoded by gene 46 SEQ ID NO:294.  
XX KW Human; secreted protein; immunomodulatory; antisclerotic; anti-HIV;  
KW dermatological; immunosuppressive; antiinflammatory; immunostimulant;  
KW cytostatic; cardiant; vascular; anti-angiogenic; ophthalmological;  
KW neuroprotective; nootropic; anticonvulsant; antialzheimers; vulnery;  
KW antiparkinsonian; antimicrobial; gene therapy; vaccine; immune disorder;  
KW multiple sclerosis; systemic lupus erythematosus; HIV infection; cancer;  
KW human immunodeficiency virus; hyperproliferative disorder; wound healing;  
KW Gaucher's disease; cardiovascular disease; Scimitar syndrome; chemotaxis;  
KW Chaga's cardiomyopathy; coronary arteriosclerosis; angiotensin II receptor antagonist; corneal graft neovascularisation; diabetic retinopathy; regeneration;  
KW neurological disorder; Huntington's chorea; Alzheimer's disease;  
KW Parkinson's disease; infectious disease.

XX Homo sapiens.

XX WO200162891-A2.

XX 30-AUG-2001.

XX 21-FEB-2001; 2001WO-US0005614.

XX 24-FEB-2000; 2000US-0184836P.

XX 29-MAR-2000; 2000US-0193170P.

XX (HUMA-) HUMAN GENOME SCI INC.

XX NI J, Ebner R, Lafleur DW, Moore PA, Olsen HS, Rosen CA;  
PI Ruben SM, Soppet DR, Young PE, Shi Y, Florence KA, Wei Y;  
PI Florence C, Hu J, Li Y, Kyaw H, Fischer CU, Ferrie AM, Fan P;  
PI Feng P, Endress GA, Dillon PJ, Carter KC, Brewer LA, Yu G, Zeng Z;

PI Greene JW;

DR WPI; 2001-625724/72.

DR N-PSDB; ABA83239.

XX Nucleic acids encoding 207 human secreted polypeptides, useful for preventing, diagnosing and/or treating, e.g. cancers, Parkinson's disease and diabetic retinopathy.

PS Claim 11; Page 1103-1104; 1533pp; English.

XX ABB50301 to ABB51287 and ABA83194 to ABA83441 represent human secreted proteins (I) and polynucleotide (II) sequences. (I) and (II) have various activities based on the tissues and cells the genes are expressed in. Example of these activities include: immunomodulatory; antisclerotic; dermatological; immunosuppressive; antiinflammatory; immunostimulant; anti-HIV; cytostatic; cardiant; anti-angiogenic; ophthalmological; neuroprotective; nootropic; anticonvulsant; antialzheimers; vascular; antiparkinsonian; antimicrobial; and vulnary. (I) and (II) can be used in gene therapy and vaccine production. (I) and (II) can be used in the prevention, diagnosis and treatment of immune disorders (e.g. multiple sclerosis, systemic lupus erythematosus and human immunodeficiency virus (HIV) infections), hyperproliferative disorders (e.g. cancers and Gaucher's disease), cardiovascular diseases (e.g. Scimitar syndrome, Chaga's cardiomyopathy and coronary arteriosclerosis), angiogenic disorders (e.g. corneal graft neovascularisation and diabetic retinopathy), neurological disorders (e.g. Huntington's chorea, Alzheimer's disease and Parkinson's disease), infectious diseases and/or for promoting wound healing, regeneration and/or chemotaxis. ABA83185 to ABA83193 and ABB50300 represent sequences used in the exemplification of the present invention

XX Sequence 103 AA;

Query Match 33.5%; Score 477.5; DB 4; Length 103;  
Best Local Similarity 95.0%; Pred. No. 3.3e-35;  
Matches 96; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 1 MAPRALPGSAVLAAAVFVGAVSPLVAPDNGSSRTLHSRTTTPSPSNDTGNHPEYIA 60  
|||||  
DB 1 MAPRALPGSAVLAAAVFVGAVSPLVAPDNGSSRTLHSRTTTPSPSNDTGNHPEYIA 60  
|||||

QY 61 YALVPVFFIMGLFGVLIC-HLLKKKGYRCTTEAEQDIEEEK 100  
|||||

DB 61 YALVPVFFIMGLFGVLIXPXXXXKKGYRCTTEAEQDIEEEK 101  
|||||

RESULT 9  
ABO44603

ID ABO44603 standard; protein; 103 AA.

XX AC ABO44603;

XX DT 02-OCT-2003 (first entry)

XX DE Novel human secreted protein #46.

XX Human; gene therapy; autoimmune disorder; multiple sclerosis; cancer;  
KW systemic lupus erythematosus; haematopoietic cell disorder; allergy;  
KW agammaglobulinaemia; ataxia telangiectasia; blood coagulation disorder;  
KW afibrinogenemia; thrombocytopenia; graft-versus-host disease; arthritis;  
KW inflammatory condition; ischaemia-reperfusion injury; infectious disease;  
KW hyperproliferative disorder; purpura; viral infection; regeneration;  
KW bacterial infection; ulcer; Alzheimer's disease.

XX Homo sapiens.

XX US2003065160-A1.

XX 03-APR-2003.

XX 07-DEC-2001; 2001US-00004860.







```
Db      76 KKKKVERKXLDNSVNSDFTVGQIVHYIMKNEANADVLKAMVADNSLYDPSPVTPSTPG 135
QY      157 SPVSPGSLSPGGTTPG 172
Db      136 SPPVSPGLCHQGRGQ 151

RESULT 13
ABO44942
ID ABO44942 standard; protein; 181 AA.
AC ABO44942;
XX
XX
DT 02-OCT-2003 (first entry)
XX
DE Novel human secreted protein #46 fragment #2.
XX
KW Human; gene therapy; autoimmune disorder; multiple sclerosis; cancer;
KW systemic lupus erythematosus; haematopoietic cell disorder; allergy;
KW agammaglobulinaemia; ataxia telangiectasia; blood coagulation disorder;
KW afibrinogenemia; thrombocytopenia; graft-versus-host disease; arthritis;
KW inflammatory condition; ischaemia-reperfusion injury; infectious disease;
KW hyperproliferative disorder; purpura; viral infection; regeneration;
KW bacterial infection; ulcer; Alzheimer's disease.
XX
OS Homo sapiens.
XX
XX US2003065160-A1.
XX
PD 03-APR-2003.
XX
XX 07-DEC-2001; 2001US-00004860.
XX
PR 06-JUN-1997; 97US-0048875P.
PR 06-JUN-1997; 97US-0048876P.
PR 06-JUN-1997; 97US-0048877P.
PR 06-JUN-1997; 97US-0048878P.
PR 06-JUN-1997; 97US-0048880P.
PR 06-JUN-1997; 97US-0048881P.
PR 06-JUN-1997; 97US-0048882P.
PR 06-JUN-1997; 97US-0048883P.
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PR 06-JUN-1997; 97US-0048892P.
PR 06-JUN-1997; 97US-0048893P.
PR 06-JUN-1997; 97US-0048894P.
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PR 06-JUN-1997; 97US-0048900P.
PR 06-JUN-1997; 97US-0048901P.
PR 06-JUN-1997; 97US-0048915P.
PR 06-JUN-1997; 97US-0048916P.
PR 06-JUN-1997; 97US-0048917P.
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PR 06-JUN-1997; 97US-0049020P.
PR 06-JUN-1997; 97US-0049373P.
PR 06-JUN-1997; 97US-0049374P.
PR 06-JUN-1997; 97US-0049375P.
PR 05-SEP-1997; 97US-0057584P.
PR 05-SEP-1997; 97US-0057627P.
PR 05-SEP-1997; 97US-0057628P.

103-SEP-1997; 97US-0057629P.
103-SEP-1997; 97US-0057634P.
103-SEP-1997; 97US-0057635P.
103-SEP-1997; 97US-0057642P.
103-SEP-1997; 97US-0057643P.
103-SEP-1997; 97US-0057644P.
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103-SEP-1997; 97US-0057762P.
103-SEP-1997; 97US-0057763P.
103-SEP-1997; 97US-0057764P.
103-SEP-1997; 97US-0057765P.
103-SEP-1997; 97US-0057769P.
103-SEP-1997; 97US-0057770P.
103-SEP-1997; 97US-0057771P.
103-SEP-1997; 97US-0057774P.
103-SEP-1997; 97US-0057775P.
103-SEP-1997; 97US-0057776P.
103-SEP-1997; 97US-0057777P.
103-SEP-1997; 97US-0057778P.
103-SEP-1997; 97US-0070923P.
103-SEP-1997; 98WO-US011422.
103-SEP-1997; 98US-0092921P.
103-SEP-1997; 98US-0094657P.
103-SEP-1997; 98US-00205258.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Young P, Greene JM, Ferrie AM, Ruben SM, Rosen CA, Hu J;
XX Olsen HS, Ebner R, Brewer LA, Moore PA, Shi Y, Florence C;
XX Florence K, Lafleur DM, Ni J, Fan P, Wei Y, Fischer CL, Soppet DR;
XX Li Y, Zeng Z, Kyaw H, Yu G, Feng P, Dillon PJ, Endress CA;
XX Carter KC;
XX WPI; 2003-540804/51.
XX
XX New isolated protein, useful for preparing a composition for diagnosing
XX or treating cancer, inflammatory, immune or infectious diseases.
XX
XX Disclosure; Page 28; 172pp; English.
XX
XX The invention relates to an isolated HEMA80 protein. The protein is
XX useful for preparing a composition for diagnosing or treating autoimmune
XX disorders e.g. multiple sclerosis and systemic lupus erythematosus;
XX haematopoietic cell disorders e.g. agammaglobulinaemia and ataxia
XX telangiectasia; blood coagulation disorders e.g. afibrinogenemia and
XX thrombocytopenia; allergy; graft-versus-host disease; inflammatory
XX conditions e.g. ischaemia-reperfusion injury and arthritis;
XX hyperproliferative disorders e.g. cancer and purpura; infectious disease
XX e.g. viral infection and bacterial infection. The polynucleotide or
XX protein can be used to regenerate damaged tissue e.g. ulcers and
XX Alzheimer's disease. The present sequence represents the amino acid
XX sequence of a novel human secreted protein fragment. Note: The sequence
XX data for this patent did not form part of the printed specification but
XX was obtained in electronic format directly from USPTO at
XX seqdata.uspto.gov/sequence.html?docid=20030065160
XX
XX Sequence 181 AA;
XX
XX Query Match 23.3%; Score 332; DB 6; Length 181;
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Best Local Similarity 85.5%; Pred. No. 1.1e-21;  
Matches 65; Conservative 3; Mismatches 8; Indels 0; Gaps 0;  
QY 97 EEKVEKIELNDNSVNSDVTGQIVHYIMKNEANADVLKAMVADNSLYDPSPVTPSTPG 156  
:::|||||  
Db 76 KKKKVEKXLLNDNSVNSDVTGQIVHYIMKNEANADVLKAMVADNSLYDPSPVTPSTPG 135  
QY 157 SPVSPGLSPGGTGP 172  
|  
Db 136 SPVSPGLCHQGGTGP 151

RESULT 14

ABO26422  
ID ABO26422 standard; protein; 181 AA.

AC ABO26422;

DT 10-SEP-2003 (first entry)

Protein associated with novel secreted protein gene 46 #2.

Secreted protein; precerebellin-like protein; sepsis; acne; psoriasis;  
neurodegenerative disorder; behavioural disorder; Alzheimer's disease;  
Parkinson's disease; Huntington's disease; schizophrenia; mania;  
dementia; paranoia; psychosis; autism; immune disorder; infection;  
inflammation; allergy; liver disorder; hepatoblastoma; jaundice;  
hepatitis; immunological disorder; AIDS; leukaemia; rheumatoid arthritis;  
cancer.

Unidentified.

US6525174-B1.

25-FEB-2003.

04-DEC-1998; 98US-00205258.

06-JUN-1997; 97US-0048875P.

06-JUN-1997; 97US-0048876P.

06-JUN-1997; 97US-0048877P.

06-JUN-1997; 97US-0048878P.

06-JUN-1997; 97US-0048880P.

06-JUN-1997; 97US-0048881P.

06-JUN-1997; 97US-0048882P.

06-JUN-1997; 97US-0048883P.

06-JUN-1997; 97US-0048884P.

06-JUN-1997; 97US-0048885P.

06-JUN-1997; 97US-0048892P.

06-JUN-1997; 97US-0048893P.

06-JUN-1997; 97US-0048894P.

06-JUN-1997; 97US-0048895P.

06-JUN-1997; 97US-0048896P.

06-JUN-1997; 97US-0048897P.

06-JUN-1997; 97US-0048898P.

06-JUN-1997; 97US-0048900P.

06-JUN-1997; 97US-0048901P.

06-JUN-1997; 97US-0048915P.

06-JUN-1997; 97US-0048916P.

06-JUN-1997; 97US-0049375P.

05-SEP-1997; 97US-0057584P.

05-SEP-1997; 97US-0057627P.

05-SEP-1997; 97US-0057628P.

05-SEP-1997; 97US-0057629P.

05-SEP-1997; 97US-0057634P.

05-SEP-1997; 97US-0057635P.

05-SEP-1997; 97US-0057642P.

05-SEP-1997; 97US-0057643P.

05-SEP-1997; 97US-0057644P.

05-SEP-1997; 97US-0057645P.

05-SEP-1997; 97US-0057647P.

05-SEP-1997; 97US-0057648P.

05-SEP-1997; 97US-0057649P.

05-SEP-1997; 97US-0057650P.

05-SEP-1997; 97US-0057651P.

05-SEP-1997; 97US-0057654P.

05-SEP-1997; 97US-0057661P.

05-SEP-1997; 97US-0057662P.

05-SEP-1997; 97US-0057666P.

05-SEP-1997; 97US-0057667P.

05-SEP-1997; 97US-0057668P.

05-SEP-1997; 97US-0057760P.

05-SEP-1997; 97US-0057761P.

05-SEP-1997; 97US-0057762P.

05-SEP-1997; 97US-0057763P.

05-SEP-1997; 97US-0057764P.

05-SEP-1997; 97US-0057765P.

05-SEP-1997; 97US-0057765P.

05-SEP-1997; 97US-0057769P.

05-SEP-1997; 97US-0057770P.

05-SEP-1997; 97US-0057771P.

05-SEP-1997; 97US-0057774P.

05-SEP-1997; 97US-0057775P.

05-SEP-1997; 97US-0057776P.

05-SEP-1997; 97US-0057777P.

05-SEP-1997; 97US-0057778P.

18-DEC-1997; 97US-0070923P.

04-JUN-1998; 98WO-US011422.

15-JUL-1998; 98US-0092921P.

30-JUN-1998; 98US-0094657P.

(HUMA-) HUMAN GENOME SCI INC.

Young P, Greene JM, Ferrie AM, Ruben SM, Rosen CA, Hu J;

Olseen HS, Ebner R, Brewer LA, Moore PA, Shi Y, Florence C;

Florence K, Lafleur DW, Ni J, Fan P, Wei Y, Fischer CL, Soppet DR;

Li Y, Zeng Z, Kyaw H, Yu G, Feng P, Dillon FJ, Endress GA;

Carter KC;

WPI; 2003-511926/48.

New precerebellin-like protein, useful for diagnosing or treating

neurodegenerative and behavioral disorders, immune disorders, liver

disorders, and cancer.

Disclosure; Col 52; 156pp; English.

The invention relates to an isolated protein comprising amino acid

residues 33-205 or 1-205 of a novel human secreted protein appearing as

ABO26252. The protein is encoded by one of 238 disclosed cDNA sequences

encoding 238 secreted proteins. ABO26252 is a precerebellin-like protein.

Alao included are a composition comprising the protein and a carrier and

an isolated protein produced by expressing the protein cited above by a

cell, and recovering the protein. The proteins are useful for diagnosing

or treating neurodegenerative and behavioural disorders (e.g. Alzheimer's

disease, Parkinson's disease, Huntington's disease, schizophrenia, mania,

dementia, paranoia, psychoses or autism), immune disorders (e.g.

infection, inflammation, allergy), liver disorders (e.g. hepatoblastoma,

jaundice, hepatitis), immunological disorders (e.g. AIDS, leukaemia,

rheumatoid arthritis, sepsis, acne, psoriasis) and cancer. The present

sequence is a protein associated with one of the 238 disclosed novel

secreted proteins



```

XX SQ Sequence 181 AA;
Query Match      23.3%; Score 332; DB 7; Length 181;
Best Local Similarity 85.5%; Pred. No. 1.1e-21;
Matches 65; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

QY 97 EEEKVKIELNDSVNSDVGQIVHYIMKNEANADVLKAWADNSLYDPSPVTPSTPG 156
    ::::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 76 KKKKVEKXLDNSVNSDVGQIVHYIMKNEANADVLKAWADNSLYDPSPVTPSTPG 135

QY 157 SPVSPGCLSPGGTTPG 172
Db 136 SPVSPGCLHQGGGQQ 151

RESULT 15
ADP29453
ID ADP29453 standard; protein; 382 AA.
XX AC ADP29453;
XX DT 12-AUG-2004 (first entry)
XX DE Human secreted protein SEQ ID #220.
XX KW Cytostatic; Antiinflammatory; Immunosuppressive; Antibacterial; Virucide;
XX KW cancer; inflammatory; immune; human secreted protein.
XX OS Homo sapiens.
XX PN WQ02004035732-A2.
XX PD 29-APR-2004.
XX PF 28-AUG-2003; 2003WO-US026780.
XX PR 29-AUG-2002; 2002US-0406576P.
XX PR 29-AUG-2002; 2002US-0406579P.
XX PR 29-AUG-2002; 2002US-0406585P.
XX PR 29-AUG-2002; 2002US-0406588P.
XX PR 29-AUG-2002; 2002US-0406608P.
XX PR 29-AUG-2002; 2002US-0406611P.
XX PR 29-AUG-2002; 2002US-0406612P.
XX PR 29-AUG-2002; 2002US-0406616P.
XX PR 29-AUG-2002; 2002US-0406640P.
XX PR 29-AUG-2002; 2002US-0406642P.
XX PR 29-AUG-2002; 2002US-0406646P.
XX PR 29-AUG-2002; 2002US-0406653P.
XX PR 29-AUG-2002; 2002US-0406655P.
XX PR 29-AUG-2002; 2002US-0406666P.
XX PR 17-SEP-2002; 2002US-0410946P.
XX PR 17-SEP-2002; 2002US-0410947P.
XX PR 17-SEP-2002; 2002US-0410948P.
XX PR 17-SEP-2002; 2002US-0410949P.
XX PR 17-SEP-2002; 2002US-0410953P.
XX PR 17-SEP-2002; 2002US-0410957P.
XX PR 17-SEP-2002; 2002US-0410958P.
XX PR 17-SEP-2002; 2002US-0410959P.
XX PR 17-SEP-2002; 2002US-0410960P.
XX PR 17-SEP-2002; 2002US-0410961P.
XX PR 17-SEP-2002; 2002US-0410962P.
XX PR 17-SEP-2002; 2002US-0411019P.
XX PR 17-SEP-2002; 2002US-0411022P.
XX PR 17-SEP-2002; 2002US-0411023P.
XX PR 17-SEP-2002; 2002US-0411024P.
XX PR 17-SEP-2002; 2002US-0411032P.
XX PR 17-SEP-2002; 2002US-0411035P.
XX PR 17-SEP-2002; 2002US-0411037P.
XX PR 17-SEP-2002; 2002US-0411041P.
XX PR 17-SEP-2002; 2002US-0411045P.
XX PR 17-SEP-2002; 2002US-0411046P.
XX PR 17-SEP-2002; 2002US-0411048P.

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PR 17-SEP-2002; 2002US-0411052P.
PR 17-SEP-2002; 2002US-0411055P.
PR 17-SEP-2002; 2002US-0411073P.
PR 17-SEP-2002; 2002US-0411082P.
PR 17-SEP-2002; 2002US-0411101P.
PR 17-SEP-2002; 2002US-0411111P.
PR 18-APR-2003; 2003US-0463700P.
PR 18-APR-2003; 2003US-0463708P.
PR 18-APR-2003; 2003US-0463716P.
PR 18-APR-2003; 2003US-0463732P.
PR 02-MAY-2003; 2003US-0467199P.
PR 02-MAY-2003; 2003US-0467201P.
PR 02-MAY-2003; 2003US-0467203P.
PR 19-MAY-2003; 2003US-0467230P.
PR 19-MAY-2003; 2003US-0471306P.
PR 19-MAY-2003; 2003US-0471366P.
PR 22-MAY-2003; 2003US-0472420P.
PR 22-MAY-2003; 2003US-0472430P.
PR 09-JUN-2003; 2003US-0476609P.
PR 09-JUN-2003; 2003US-0476641P.
PR 08-JUL-2003; 2003US-0485218P.
PR 08-JUL-2003; 2003US-0485223P.
PR 08-JUL-2003; 2003US-0485224P.
PR 08-JUL-2003; 2003US-0485325P.
PR 14-JUL-2003; 2003US-0486446P.
PR 14-JUL-2003; 2003US-0486480P.
PR 15-JUL-2003; 2003US-0486891P.
PR 15-JUL-2003; 2003US-0486960P.
PR 08-AUG-2003; 2003US-0493341P.
PR 08-AUG-2003; 2003US-0493370P.
PR 08-AUG-2003; 2003US-0493573P.
PR 08-AUG-2003; 2003US-0493577P.
XX XX
FA (FIVE-) FIVE PRIME THERAPEUTICS INC.
XX XX
PI Williams LT, Chu K, Lee E, Hestir K, Beaurang PA, Behrens D;
PI Halenbeck RE, Huang MM, Kothakota S, Haishan L, Linnemann T;
PI Pierce K, Wang Y, Wong JGP, Wu G, Zhang H;
XX XX
DR WPI; 2004-348438/32.
XX XX
PT New nucleic acid molecule for diagnosing, preventing or treating diseases
PT such as proliferative (e.g. cancer), inflammatory, immune, metabolic,
PT genetic, bacterial and viral diseases.
XX PS Claim 1; SEQ ID NO 1451; 428pp; English.
XX CC
CC The present invention relates to an isolated nucleic acid molecule
CC encoding a polypeptide which is believed to be cytostatic,
CC antiinflammatory, immunosuppressive, antibacterial and virucidal. The
CC composition and methods are useful for diagnosing, preventing and
CC treating diseases such as proliferative (e.g. cancer), inflammatory,
CC immune, metabolic, genetic, bacterial and viral diseases. The present
CC sequence represents a human secreted protein. The present sequence is
CC available on WIPWEB and is not in the specification.
XX SQ Sequence 382 AA;
Query Match      21.7%; Score 310; DB 8; Length 382;
Best Local Similarity 32.1%; Pred. No. 2.8e-19;
Matches 84; Conservative 36; Mismatches 72; Indels 70; Gaps 12;

QY 44 TSPSPNDTGNCHPE-----YIAYLVVPFIMGLFGVLCHLKKKGYRRTTAE----- 93
Db 102 TRQPGNGTRAGGPEETAQYAVIAIVPFCLMGLLGLVCLNLLKRRKGYHCTAKVEVGPGP 161
QY 94 ----QDIEEKVEKIELNDSVNSDVGQIVHYIMKNEANADVLKAWADNSLYDPSP 149
Db 162 GGGSGSTED-----ANEDTIGVLVPLITEKENAALAEELKE---YHSKQL 205
QY 150 VTPSTGSPSPVSPGLSPGTPGKRVKVC--GHHLHTYGGV--VERDVCHRCRHRWHFI-- 203
Db 206 VQTS---HRPVSKLPAPPNPV--HICPHRHLLHTVQGLASLSPGCCSRCSQKKWPEVLL 260

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Qy 204 -----KPTNKSRE-SRPRRQGEVTVLSVGRFRVTKVEHKSNOKERRSLM 246  
Db 261 SPEAVAATTPVPSLLPNPTRVPKAGAKAGRQGEITILSVGRFRVARI-----PEQRTSS 314  
Qy 247 SVSGAETVN-----GEVPATP 262  
Db 315 MVSEVKTITEAGPSWGDLPDPS 336

Search completed: February 23, 2006, 12:03:53  
Job time : 190 secs

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Db 356 --PEQRTSSMVSEVKITTEAGPSWGLDPS 384
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2688
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2688

Query Match 6.8%; Score 97.5; DB 7; Length 447;
Best Local Similarity 20.6%; Pred. No. 0.18;
Matches 72; Conservative 37; Mismatches 87; Indels 153; Gaps 16;

QY 29 PDNGSSRTLH-----SRTEPTSPSNDTGNHPEYI 59
Db 73 PDNTTSKTTDCLQTKGFSNSTEHRGSAQKQVQEFNCLNRGQSSQORSYSSSHSPAKI 132
QY 60 AYALVPVFFIMGLFGLVILCHLLKKGYRCTTEAQDIEEKVEKIELNDSVNSDVT-G 118
Db 133 -----QRAEQEPVAKIEGTQESQVMGSSSTREKASTVLS 166
QY 119 QIVHYIMKNEA-----NADVLKAM-----VADNSLY----- 144
Db 167 QIVASIQPPQSPPTPQSGPKACSVBEELYAIPDPADVAKSTPKTPVRPKSLFTSPSGE 226
QY 145 -----DPB-SPVTPS-----TPGSPVPVSPGLSPGTPGKHVCGHLLH 181
Db 227 AEAPQTTDPTTKVQKDPKSIKVPSPSKLVTSQSEPPAPFP-PPRSTSSPTHAGNLLQ 285
QY 182 TVGGVVERDVCHRCRH-KRWHFVKPTNKR-----ESRPRQGEVTVL 223
Db 286 -----RHFTNW--TKPTSPRTSTAESVHLHSEGSRAADAKPKW--ISPK 327
QY 224 SVGRFRVTKVE-HKSNQKRRSLMSVSGAETVNGEVPATPVKRRSGTE 271
Db 328 SFFRRKTDDEDDKEKERKGLVGLDG--TVIHMLPPPPVQRHHWFE 374

RESULT 4
US-11-198-819-6
; Sequence 6, Application US/11198819
; Publication No. US20050287582A1
; GENERAL INFORMATION:
; APPLICANT: Adema, Goease Jan
; TITLE OF INVENTION: Isolated Mammalian Monocyte Cell Genes;
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DNAX Research Institute
; STREET: 901 California Avenue
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/198,819
; FILING DATE: 04-AUG-2005
; CLASSIFICATION:

Db 356 --PEQRTSSMVSEVKITTEAGPSWGLDPS 384
; APPLICANT: JING, Shuqian
; APPLICANT: Weicher, Andrew A
; APPLICANT: Boedigheimer, Michael J
; APPLICANT: Shu, Junyan
; APPLICANT: Gary M. Fox
; TITLE OF INVENTION: TNF/OPG-LIKE MOLECULES AND USES THEREOF
; CURRENT APPLICATION NUMBER: US/11/042,814
; CURRENT FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: US/10/146,574
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/724,037
; PRIOR FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 436
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-042-814-4

Query Match 20.7%; Score 295.5; DB 7; Length 436;
Best Local Similarity 30.6%; Pred. No. 6.8e-20;
Matches 82; Conservative 36; Mismatches 89; Indels 61; Gaps 12;

QY 31 NGSRLTHSRTEPTSPSNDTGNHPE-----YIAYALVPVFFIMGLFGLVILCHLLKKKG 85
Db 148 NGEPR-----QPGNGTRAGGPEETAQAQAVIAIVPVCLMGLLGLVCLNLLKRG 197
QY 86 YRCTTEAQDIEE-----EKVEKIELNDSVNSDVTGQIVHYIMKNEANR-----DVLKAM 137
Db 198 YHCTAQKEVGPSPGGGGGINPAYRTEDANE--DTIGVLVRLITEKKENAAALELLKEY 255
QY 138 VADNSLYDPESPVTPTSPGSPVPVSPGLSPGTPGKHVC--GHHLTVGGV--VERDVCH 193
Db 256 HSKQLVQTSRHPVPRLLPSPSI-----PHICPHHHLHTVQGLASLGPCCS 303
QY 194 RCHKRWHF-----KPT---NKR-----ESRPRQGEVTVLSVGRFRVTKVE 234
Db 304 RCSOK-WPEVLLSPEAAAAATTPAPTLLPTASRAPKASAKPGRQGEITILSVGRFRVARIP 362
QY 235 HKSNQKRRSLMSVSGAETVNGEVPATP 262
Db 363 EQRTSLLSEVKITTEAGPSEGDLPS 390

RESULT 3
US-11-072-512-2688
; Sequence 2688, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGIYAMA, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HLO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
```

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US-111-198-819-8
; Sequence 8, Application US/11198819
; Publication NO. US20050287582A1
; GENERAL INFORMATION:
; APPLICANT: Adema, Gosse Jan
; TITLE OF INVENTION: Isolated Mammalian Monocyte Cell Genes;
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DNAX Research Institute
; STREET: 901 California Avenue
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/198.819

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RES-001.6
US/10-485-517-131
Sequence 131, Application US/1048517
Publication No. US2005025299A1
GENERAL INFORMATION:
APPLICANT: University of Sheffield
APPLICANT: Biosynex Incorporated
APPLICANT: Foster, Simon
APPLICANT: Mond, James
TITLE OF INVENTION: Antigenic Polypeptides
FILE REFERENCE: P1006290
CURRENT APPLICATION NUMBER: US/10/485,517
CURRENT FILING DATE: 2004-02-02
PRIORITY APPLICATION NUMBER: GB 0118825.9
PRIORITY FILING DATE: 2001-08-02
PRIORITY APPLICATION NUMBER: GB 0200349.9
PRIORITY FILING DATE: 2002-01-09
NUMBER OF SEQ ID NOS: 424
SOFTWARE: PatentIn version 3.1
SEQ ID NO 131

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; LENGTH: 948
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-10-485-517-131

Query Match      6.1%; Score 87.5; DB 6; Length 948;
Best Local Similarity 21.2%; Pred. No. 4.4;
Matches 55; Conservative 30; Mismatches 94; Indels 81; Gaps 12;

QY      26 LVAPDNGSSRTLHSGTETTPSPSNDTGNHPEY-----IAVALVPVFFIMGLFGVLI 77
Db      714 IVDIDFVSQIHQNNQNGQFEEDTEKDKYEGGNIIDFDSVP----- 761
QY      78 CHLLKKKGYYRCTTE-AEQDIEEEKVE-KIELNDSVNENSDTVGQIV-HYIMKNEANADVL 134
Db      762 -HI---HGFKNKHTEIIBEDTNKDKPNYQFGHNSVDFEEDTLQVSGHNEGQQTIEEDTT 817
QY      135 KAMVADNSLYDPESFVPTSPGSP-----PVSGPGLSP--GGTPGKHVCVGH 179
Db      818 PPV-----PPTPTPEVSEBPTPTPTPEVSEPTPTPTPEVTEPTEPKP----- 865
QY      180 LHTVGGVVERDVCHRCRHKRWHFIKPTNK--SRSRPRRQGEVT--VLSVGRFRVTKVEH 235
Db      866 -----LPPAKEBPKPSKPVQEGKVTPVPIEINEKVAVVPT 902
QY      236 KSNQKERRSLMSVSGAETVN 255
Db      903 KKAQSKKSELPTGGEESTN 922

RESULT 7
US-10-888-962-6
; Sequence 6, Application US/10888962
; Publication No. US20050266531A1
; GENERAL INFORMATION:
; APPLICANT: Saint Louis University
; APPLICANT: Ray, Ranjit
; APPLICANT: Yie-Hwa, Chang
; APPLICANT: Ray, Ratna
; APPLICANT: Baau, Arnab
; TITLE OF INVENTION: Compositions and Methods for Inhibiting Liver Stellate
; TITLE OF INVENTION: Growth
; FILE REFERENCE: SLU 03-013 PCT
; CURRENT APPLICATION NUMBER: US/10/888,962
; PRIOR FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: 60/487,126
; PRIOR FILING DATE: 2003-07-12
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-888-962-6

Query Match      6.0%; Score 85.5; DB 6; Length 367;
Best Local Similarity 25.6%; Pred. No. 1.8;
Matches 59; Conservative 23; Mismatches 93; Indels 53; Gaps 13;

QY      25 PLVAPDNGSSRTLHSGTETTP--SPSNDTGNHPEYIAYA-LVPV-----FFIMGLFG 74
Db      150 PLLAPLNL-DTRVHAAKAAALAAFAAQNNGNSFQLEESRAQLVPLPPSTVYFVTSVGTDC 208
QY      75 V-----LCHLLKKKGYSR-CITTEAQQDIEEEKVEKIELNDSVNENSDTVGQIVHIMK 126
Db      209 VAKATEAAKCNLLAEQYGFCKATLSEKLGGAEV--AVTCTVFQTPVTSQ-----PQP 261
QY      127 NEANADVLKAMVADNSLYDPESVPTPTGSPPVSPGFLSPGCT-PGKHVC-----GHHL 180
Db      262 EGANEAV-----PTPVVDPAAPSPPLGAPCLPAGSPPPSHVLLAAPPGHQL 309
QY      181 HTVGGVVERDVCHRCRHKRWHFIKPTNKSR-SRPREGVETVLVSG 226

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; PRIOR APPLICATION NUMBER: 09/997,131
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 09/628,508
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: PCT/US00/03062
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 60/119,468
; PRIOR FILING DATE: 1999-02-10
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 67
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (164)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (213)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-240-769-67

Query Match          6.0%; Score 85; DB 7; Length 377;
Best Local Similarity 22.6%; Pred. No. 2.1;
Matches 53; Conservative 28; Mismatches 66; Indels 88; Gaps 14;

Qy 59 IAVALVPVFFIMGLFGVLIICHLKKGVCRTTEAEQDIEBEKVKIELNSVNSDVTG 118
Db 183 IINSVVVFFLSGLSIIIRLRK-----DIANYKED-DIEDTMEESG---W 227
Qy 119 QIVHYIMKNEANADVLKAMVADNSLYDPSPVTPSTPGSPVSPGLSPG--T 170
Db 228 KLVH-----GDVFR-----PPVPHDPQLAGLRHSVLYD 258
Qy 171 PGKHVCGH-----HLHT-----VGVVVERDVCHRCRHRW----HFYKPTNKS 209
Db 259 PHRHLCSHAWDAVALPGSGSHDLSLLPLHVHGGVWRIFC-----WPSVPHPKRP---S 308
Qy 210 RESRPRQGEVTVLSVGRFRVTKVE--HKSNQKERRSLMSVSGAETVN--GEVPA 260
Db 309 VEBSLLYGN-SVPMWCGFWHLRLIELHLGKALIRSGALSHHGGSAVHVVRDLPA 362

RESULT 10
US-10-467-962B-31
; Sequence 31, Application US/10467962B
; Publication No. US20050246784A1
; GENERAL INFORMATION:
; APPLICANT: Plesch, Gunnar
; APPLICANT: Blau, Astrid
; APPLICANT: Daeschner, Klaus
; APPLICANT: Klein, Mathieu
; TITLE OF INVENTION: Identification of Herbicidally Active Substances
; FILE REFERENCE: 2000.857
; CURRENT FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US/10/467,962B
; PRIOR FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 109
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 31
; LENGTH: 954
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; Query Match          5.9%; Score 84.5; DB 6; Length 954;
; Best Local Similarity 26.2%; Pred. No. 8.4;
; Matches 34; Conservative 22; Mismatches 45; Indels 29; Gaps 6;

Qy 77 ICHLLKKKGYRCTTEAEQDIEBEKVKIELND-----SVNNSDVTG--QIVHY 123

; PRIOR APPLICATION NUMBER: 09/997,131
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 09/628,508
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: PCT/US00/03062
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 60/119,468
; PRIOR FILING DATE: 1999-02-10
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 67
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (164)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (213)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-240-769-67

Query Match          5.9%; Score 84; DB 7; Length 1344;
Best Local Similarity 24.9%; Pred. No. 15;
Matches 53; Conservative 26; Mismatches 74; Indels 60; Gaps 12;

Qy 11 VLAADV-FVGGAVSSPLVAPDNGSSRTLHSTRTTTPSPSNDTGNGH-PEYIAYALVPVFF 68
Db 633 VLATTANWLPGLIHSPLIC-----TTPKHYIRFGSPFIPERRRLLP--- 675
Qy 69 IMGLFGVLIICHLK---KKGYRCTTEAEQDIEBEKVKIELNSVNSDVTGQIVHYIM 125
Db 676 -DGTFFSSCKRWIKQALEEGMTQTSVPQETRTQHLQ-----SNENSSSSS-----IC 723
Qy 126 KNEANADVLKAMVADNSLY-----DPESPVTPTSGSPVSPGLSPGCT-PCKH 174
Db 724 KD--NADLLSPLKFKWKRYLMEQNVTKLLRPLSPVTPPPNPGSKSPOLATPGSSHPGEE 781
Qy 175 VC--GHHL-----HTVGGVVERDVCHR 194
Db 782 ECRNGYSLMSPVTSLTTSRRCNTPLQFELCHR 814

RESULT 12
Db 785 LCSTLKVKAEADVNNRVNLEELFAARKEASDLRSKAAVYKASVISNKAFTVGTSTIRV 844
Qy 124 IMK--NEANADVLKAMVAD--NSLYDPSPVTPSTPGSPV-----SPGPLSPGCTPGK 173
Db 845 LVESMDTDDADSLKSAAEHLISTLEDPAVVVLGSSPEKDKVSLVAATSPGVVSLGVQACK 904
Qy 174 HV-----CG 177
Db 905 FIGPIAKLCG 914

RESULT 11
US-11-072-512-2452
; Sequence 2452, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: SEKI, NAOHICO
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/11/072,512
; PRIOR FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2452
; LENGTH: 1344
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-072-512-2452

Query Match          5.9%; Score 84; DB 7; Length 1344;
Best Local Similarity 24.9%; Pred. No. 15;
Matches 53; Conservative 26; Mismatches 74; Indels 60; Gaps 12;

Qy 11 VLAADV-FVGGAVSSPLVAPDNGSSRTLHSTRTTTPSPSNDTGNGH-PEYIAYALVPVFF 68
Db 633 VLATTANWLPGLIHSPLIC-----TTPKHYIRFGSPFIPERRRLLP--- 675
Qy 69 IMGLFGVLIICHLK---KKGYRCTTEAEQDIEBEKVKIELNSVNSDVTGQIVHYIM 125
Db 676 -DGTFFSSCKRWIKQALEEGMTQTSVPQETRTQHLQ-----SNENSSSSS-----IC 723
Qy 126 KNEANADVLKAMVADNSLY-----DPESPVTPTSGSPVSPGLSPGCT-PCKH 174
Db 724 KD--NADLLSPLKFKWKRYLMEQNVTKLLRPLSPVTPPPNPGSKSPOLATPGSSHPGEE 781
Qy 175 VC--GHHL-----HTVGGVVERDVCHR 194
Db 782 ECRNGYSLMSPVTSLTTSRRCNTPLQFELCHR 814

RESULT 12
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US-10-467-657-1672	Application Number: US 07/546,114
Sequence 1672, Application US/10467657	Filing Date: 29-JUN-1990
Publication No. US20050260581A1	Application Number: US 07/457,196
GENERAL INFORMATION:	Filing Date: 29-DEC-1989
APPLICANT: CHIRON SPA	Application Number: US 07/390,901
APPLICANT: FONTANA Maria Rita	Filing Date: 08-AUG-1989
APPLICANT: PIZZA Mariagrazia	Attorney/Agent Information:
APPLICANT: MASIGNANI Vega	Name: Cseri, Luann
APPLICANT: MONACI Elisabetta	Registration Number: 31,822
TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS	Reference/Docket Number: GI 5190
FILE REFERENCE:	Telecommunication Information:
CURRENT APPLICATION NUMBER: US/10/467,657	Telephone: (617) 876-1170
CURRENT FILING DATE: 2003-08-11	Telefax: (617) 876-5851
PRIOR APPLICATION NUMBER: GB-0103424.8	Information for Seq ID No: 104:
PRIOR FILING DATE: 2001-02-12	Sequence Characteristics:
NUMBER OF SEQ ID NOS: 9218	Length: 1140 amino acids
SOFTWARE: SeqWin99, version 1.04	Type: amino acid
SEQ ID NO 1672	Topology: linear
LENGTH: 399	Molecule Type: protein
TYPE: PRT	Sequence Description: SEQ ID NO: 104:
ORGANISM: Neisseria gonorrhoeae	US-11-169-232-104
US-10-467-657-1672	
Query Match 5.8%; Score 82.5; DB 6; Length 399;	Query Match 5.8%; Score 82.5; DB 7; Length 1140;
Best Local Similarity 25.4%; Pred. No. 3.9;	Best Local Similarity 20.1%; Pred. No. 17;
Matches 34; Conservative 15; Mismatches 58; Indels 27; Gaps 4;	Matches 55; Conservative 35; Mismatches 111; Indels 73; Gaps 9;
QY 52 GNGHPYIAVALVPVPFIM---GLFGVLICH-----LLKKGYRCTTEAEODI 96	QY 23 SSPLVAPDNGSSRSLHSTETTPSPNDTGNHGHPYIAVALVPVFFINGLFGVLICHLLK 82
DB 260 GPDPEPCTYAEAVQKMGSKPIFGICLGHQLISLAIGAKTLKORFSHGHAHPVQDL 319	DB 115 SSKAAPPPGASQTIKSTTKRSPKPN-----141
QY 97 EEEKVEKIELNDVSNENSDTVGQIVHYIMKNEANADVLKAMVADNSLYDPSPVTP--ST 154	QY 83 KGYRCTTEAEQDIEEEKVEKIELNDVSNENSDTVGQI--VHYIMKNEANADVLKAM--VA 139
DB 320 DSGKVVITSONHGFAVDATL-----PANARITHKSLFDNTLQGIELTDKPVPCF 369	DB 142 KKTKKVISEETIEHSVSENQESSSSSSSSSSSTIWKIKSSKNKSAANRELQKKLVK 201
QY 155 PGSPVPSPGLSPG 168	QY 140 DNSLYDPSPVTPSPGPPVSPGLSPG-----TPGKHVCGHHLHTVGGVVERDVCHRC 195
DB 370 QGHPEASPGPDVG 383	DB 202 DNKKNRTEKKKTPKPPVVDAGSG--LDNGDFKVTPTDSTTQHNVKSTSPKITT----- 254
RESULT 13	QY 196 RHKRWHFIKPTNKSRESRRQGEVTVLSVGRFRVTKVEHK-----SN 238
US-11-169-232-104	DB 255 -----AKPIN-PRPSLPNDSKTSKTSVTNKTETVETKTTTTNTKQSTGDKKETS 306
Sequence 104, Application US/11169232	QY 239 QKERRSLMSVGAETV--NGEVPATPVKRRSGTE 271
Publication No. US20060025570A1	DB 307 AKETQSIKTSKADLAPTAKVLAKTPKPAETTK 340
GENERAL INFORMATION:	
APPLICANT: Turner, Katherine	
Clark, Stephen C.	
Jacobs, Kenneth	
Hewick, Rodney M.	
Geener, Thomas G.	
TITLE OF INVENTION: Megakaryocyte Stimulating Factors	
NUMBER OF SEQUENCES: 143	
CORRESPONDENCE ADDRESS:	
ADDRESSEE: Genetics Institute, Inc.	
STREET: 87 CambridgePark Drive	
CITY: Cambridge	
STATE: Massachusetts	
COUNTRY: U.S.A.	
ZIP: 02140	
COMPUTER READABLE FORM:	
MEDIUM TYPE: Floppy disk	
COMPUTER: IBM PC compatible	
OPERATING SYSTEM: PC-DOS/MS-DOS	
SOFTWARE: PatentIn Release #1.0, Version #1.25	
CURRENT APPLICATION DATA:	
APPLICATION NUMBER: US/11/169,232	
FILING DATE: 28-Jun-2005	
CLASSIFICATION: <Unknown>	
PRIOR APPLICATION DATA:	
APPLICATION NUMBER: US/10/124,557	
FILING DATE: 16-Apr-2002	
APPLICATION NUMBER: US 07/643,502	
FILING DATE: 18-JAN-1991	

```
;
; FILING DATE: 28-Jun-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/124,557
; FILING DATE: 16-Apr-2002
; APPLICATION NUMBER: US 07/643,502
; FILING DATE: 18-JAN-1991
; APPLICATION NUMBER: US 07/546,114
; FILING DATE: 29-JUN-1990
; APPLICATION NUMBER: US 07/457,196
; FILING DATE: 29-DEC-1989
; APPLICATION NUMBER: US 07/390,901
; FILING DATE: 08-AUG-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: GI 5190
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)876-1170
; TELEFAX: (617)876-5851
; INFORMATION FOR SEQ ID NO: 52:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1363 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 52:
US-11-169-232-52.

Query Match 5.8%; Score 82.5; DB 7; Length 1363;
Best Local Similarity 20.1%; Pred. No. 21;
Matches 55; Conservative 35; Mismatches 111; Indels 73; Gaps 9;

Qy 23 SSPLVAPDNGSSRLHSTRTTTPSPNDTGNHPEYIAYALVPVFFIMGLFGVLICHLK 82
Db 74 SSKAPPPGASQIKSTTKRSPKPPN-----100
Qy 83 KGYRCTTEAQDIEEEKVEKIELNDSVNSDVTGQI--VHYIMKNEANADVLKAM-VA 139
Db 101 KKTCKVIESEETEEHSVSENQSSSSSSSTIWKIKSSKNSAANRELQKLVK 160
Qy 140 DNSLYDPESPVTPTGSPVPSPPLSPGG----TPGKHVCGHHLHTVGGVVERDVCHRC 195
Db 161 DNKKNRTKKKPTKPPVVDAGSG-LDNGDPKVTPTDSTTQHNKVSTSPKITT-----213
Qy 196 RHKRWHFIKPTNKSRESRPRQGEVTVLSVGRPRVTKEHK-----SN 238
Db 214 -----AKPIN-PRPSLPNDSKTSKTSLVNKETTVETKETTNNKQTSDDGKEKTTTS 265
Qy 239 QKERRSLMSVSGAETV-NGEVPATPVKRSRGTE 271
Db 266 AKETQSIKTSKADLAFTSKVLAKPTPKAETTK 299

RESULT 15
US-11-169-232-2
; Sequence 2, Application US/11169232
; Publication No. US20060025570A1
; GENERAL INFORMATION:
; APPLICANT: Turner, Katherine
; Clark, Stephen C.
; Jacobs, Kenneth
; Hewick, Rodney M.
; Genser, Thomas G.
; TITLE OF INVENTION: Megakaryocyte Stimulating Factors
; NUMBER OF SEQUENCES: 143
; CORRESPONDENCE ADDRESS:
; ADDRESS: Genetics Institute, Inc.
; STREET: 87 CambridgePark Drive
; CITY: Cambridge
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02140
```

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;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/169,232
; FILING DATE: 28-Jun-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/124,557
; FILING DATE: 16-Apr-2002
; APPLICATION NUMBER: US 07/643,502
; FILING DATE: 18-JAN-1991
; APPLICATION NUMBER: US 07/546,114
; FILING DATE: 29-JUN-1990
; APPLICATION NUMBER: US 07/457,196
; FILING DATE: 29-DEC-1989
; APPLICATION NUMBER: US 07/390,901
; FILING DATE: 08-AUG-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: GI 5190
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)876-1170
; TELEFAX: (617)876-5851
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1404 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-11-169-232-2

Query Match 5.8%; Score 82.5; DB 7; Length 1404;
Best Local Similarity 20.1%; Pred. No. 22;
Matches 55; Conservative 35; Mismatches 111; Indels 73; Gaps 9;

Qy 23 SSPLVAPDNGSSRLHSTRTTTPSPNDTGNHPEYIAYALVPVFFIMGLFGVLICHLK 82
Db 115 SSKAPPPGASQIKSTTKRSPKPPN-----141
Qy 83 KGYRCTTEAQDIEEEKVEKIELNDSVNSDVTGQI--VHYIMKNEANADVLKAM-VA 139
Db 142 KKTCKVIESEETEEHSVSENQSSSSSSSTIWKIKSSKNSAANRELQKLVK 201
Qy 140 DNSLYDPESPVTPTGSPVPSPPLSPGG----TPGKHVCGHHLHTVGGVVERDVCHRC 195
Db 202 DNKKNRTKKKPTKPPVVDAGSG-LDNGDPKVTPTDSTTQHNKVSTSPKITT-----254
Qy 196 RHKRWHFIKPTNKSRESRPRQGEVTVLSVGRPRVTKEHK-----SN 238
Db 255 -----AKPIN-PRPSLPNDSKTSKTSLVNKETTVETKETTNNKQTSDDGKEKTTTS 306
Qy 239 QKERRSLMSVSGAETV-NGEVPATPVKRSRGTE 271
Db 307 AKETQSIKTSKADLAFTSKVLAKPTPKAETTK 340

Search completed: February 23, 2006, 12:12:39
Job time : 19 secs
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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: February 23, 2006, 12:08:48 ; Search time 163 Seconds  
(without alignments)  
694.673 Million cell updates/sec

Title: US-10-620-562-2  
Perfect score: 1426  
Sequence: 1 MAPRALPGSAVLAIAAVFVG.....ETVNGEVPATPVKRERSGTE 271

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA Main:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pcp:\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pcp:\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pcp:\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pcp:\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pcp:\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pcp:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1426	100.0	271	3	US-09-910-562-2
2	1426	100.0	271	5	US-10-620-562-2
3	477.5	33.5	103	3	US-09-933-767-294
4	477.5	33.5	103	4	US-10-004-860-294
5	477.5	33.5	103	4	US-10-023-282-294
6	332	23.3	181	3	US-09-910-562-6
7	332	23.3	181	3	US-09-933-767-633
8	332	23.3	181	4	US-10-004-860-633
9	332	23.3	181	4	US-10-023-282-633
10	332	23.3	181	5	US-10-620-562-6
11	307	21.5	408	3	US-09-057-951-4
12	307	21.5	408	4	US-10-105-150-4
13	307	21.5	430	3	US-09-057-951-2
14	307	21.5	430	3	US-09-836-607-2
15	307	21.5	430	3	US-09-421-112-2
16	307	21.5	430	4	US-10-105-150-2
17	307	21.5	430	4	US-10-146-574-2
18	307	21.5	430	4	US-10-157-031-265
19	307	21.5	430	4	US-10-322-281-522
20	295.5	20.7	436	4	US-10-146-574-4
21	289.5	20.3	357	4	US-10-322-281-515
22	281	19.7	294	3	US-09-764-875-680
23	278.5	19.5	194	3	US-09-910-562-4
24	278.5	19.5	194	5	US-10-620-562-4
25	194	13.6	250	4	US-10-322-281-520
26	193.5	13.6	299	4	US-10-094-749-2913
27	147	10.3	29	3	US-09-910-562-7

28	147	10.3	29	3	US-09-933-767-634	Sequence 634, App
29	147	10.3	29	4	US-10-004-860-634	Sequence 634, App
30	147	10.3	29	4	US-10-023-282-634	Sequence 634, App
31	147	10.3	29	5	US-10-620-562-7	Sequence 7, Appli
32	131	9.2	66	3	US-09-796-692-1534	Sequence 1534, Ap
33	131	9.2	66	4	US-10-040-862-1534	Sequence 1534, Ap
34	131	9.2	66	4	US-10-057-475B-1534	Sequence 1534, Ap
35	131	9.2	66	4	US-10-154-884B-1534	Sequence 1534, Ap
36	131	9.2	66	4	US-10-764-324-1534	Sequence 1534, Ap
37	114	8.0	96	4	US-10-322-281-518	Sequence 518, App
38	102.5	7.2	1829	4	US-10-437-963-192144	Sequence 192144,
39	97.5	6.8	447	4	US-10-104-047-2688	Sequence 2688, Ap
40	97.5	6.8	1049	5	US-10-487-561-80	Sequence 80, Appl
41	97.5	6.8	1513	4	US-10-369-493-19093	Sequence 19093, A
42	97.5	6.8	1746	4	US-10-220-955-17	Sequence 17, Appl
43	97	6.8	287	4	US-10-290-631-6	Sequence 6, Appli
44	97	6.8	287	4	US-10-290-631-8	Sequence 8, Appli
45	97	6.8	287	4	US-10-777-524-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1  
US-09-910-562-2  
; Sequence 2, Application US/09910562  
; Patent No. US20020098163A1  
; GENERAL INFORMATION:  
; APPLICANT: Zeng et al.  
; TITLE OF INVENTION: Human Tumor Necrosis Factor Receptors TR21 and TR22  
; FILE REFERENCE: PF530  
; CURRENT APPLICATION NUMBER: US/09/910,562  
; PRIOR FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: 60/221,143  
; PRIOR FILING DATE: 2000-07-27  
; PRIOR APPLICATION NUMBER: 60/220,116  
; PRIOR FILING DATE: 2000-07-24  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2  
; LENGTH: 271  
; TYPE: PRT  
; ORGANISM: homo sapiens  
; US-09-910-562-2

Query Match	100.0%;	Score 1426;	DB 3;	Length 271;
Best Local Similarity	100.0%;	Pred. No. 4.4e-118;	Mismatches 0;	Indels 0; Gaps 0;
Matches 271;	Conservative 0;			
Qy	1	MAPRALPGSAVLAIAAVFVGAVSSPLVAPDNGSSRTLHSRTTETTPSPSNDTGNHGPYIA	60	
Db	1	MAPRALPGSAVLAIAAVFVGAVSSPLVAPDNGSSRTLHSRTTETTPSPSNDTGNHGPYIA	60	
Qy	61	YALVPVFFIMGLFGLVLI CHLLKKGKGYRCTTEAEODIBEEKVEKIELDNDVNSDVTGQI	120	
Db	61	YALVPVFFIMGLFGLVLI CHLLKKGKGYRCTTEAEODIBEEKVEKIELDNDVNSDVTGQI	120	
Qy	121	VHYIMKNEANADVLKAMVADNSLYDPESPVTPTSPGSPVPSPGSPGTPGKHVCGHHL	180	
Db	121	VHYIMKNEANADVLKAMVADNSLYDPESPVTPTSPGSPVPSPGSPGTPGKHVCGHHL	180	
Qy	181	HTVGGVVERDVCHCRHCRWHFIKPTNKSRESRRRQGEVTVLSVGRFRVTKVEHKSQK	240	
Db	181	HTVGGVVERDVCHCRHCRWHFIKPTNKSRESRRRQGEVTVLSVGRFRVTKVEHKSQK	240	
Qy	241	ERRSLMSVSGAETVNGEVPATPVKRERSGTE	271	
Db	241	ERRSLMSVSGAETVNGEVPATPVKRERSGTE	271	

RESULT 2  
US-10-620-562-2  
; Sequence 2, Application US/10620562

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/ Publication No. US20050090436A1
/ GENERAL INFORMATION:
/ APPLICANT: Zeng, Z et al.
/ TITLE OF INVENTION: Human Tumor Necrosis Factor receptors TR21 and TR22
/ FILE REFERENCE: PF530C1
/ CURRENT APPLICATION NUMBER: US/10/620,562
/ CURRENT FILING DATE: 2003-07-17
/ PRIOR APPLICATION NUMBER: 09/910,562
/ PRIOR FILING DATE: 2001-07-23
/ PRIOR APPLICATION NUMBER: 60/221,143
/ PRIOR FILING DATE: 2000-07-27
/ PRIOR APPLICATION NUMBER: 60/220,116
/ PRIOR FILING DATE: 2000-07-24
/ NUMBER OF SEQ ID NOS: 10
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 2
/ LENGTH: 271
/ TYPE: PRT
/ ORGANISM: homo sapiens
/ ORGANISM: homo sapiens
US-10-620-562-2

Query Match 100.0%; Score 1426; DB 5; Length 271;
Best Local Similarity 100.0%; Pred. No. 4.4e-118;
Matches 271; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAPRALPGSAVLAAGVGVGAVSSPLVAPDNGSSRTLHSRTTTPSPSNDTGNHPEYIA 60
Db 1 MAPRALPGSAVLAAGVGVGAVSSPLVAPDNGSSRTLHSRTTTPSPSNDTGNHPEYIA 60
QY 61 YALVPVFFINGLFGVLICHLLKKKGKGYRCTTAEQDIEEEKVEKIELNDSVNENS DTVGQI 120
Db 61 YALVPVFFINGLFGVLICHLLKKKGKGYRCTTAEQDIEEEKVEKIELNDSVNENS DTVGQI 120
QY 121 VHYIMKNEANADVLKAMVADNSLYDPSPVTPSTPGSPPPVSPGSPGTPGKHVCGHHL 180
Db 121 VHYIMKNEANADVLKAMVADNSLYDPSPVTPSTPGSPPPVSPGSPGTPGKHVCGHHL 180
QY 181 HTVGGVVERDVCHRCRKHWHFKPTNKSRSPRQGEVTVLSVGRFRTVKVEHKSNOK 240
Db 181 HTVGGVVERDVCHRCRKHWHFKPTNKSRSPRQGEVTVLSVGRFRTVKVEHKSNOK 240
QY 241 ERSLSMSVSGAETVNGEVPATPVKRRERSGTE 271
Db 241 ERSLSMSVSGAETVNGEVPATPVKRRERSGTE 271

RESULT 3
US-09-933-767-294
/ Sequence 294, Application US/099333767
/ Publication No. US20030181692A1
/ GENERAL INFORMATION:
/ APPLICANT: Ni et al.
/ TITLE OF INVENTION: 207 Human Secreted Proteins
/ FILE REFERENCE: P2007P2
/ CURRENT APPLICATION NUMBER: US/09/933,767
/ CURRENT FILING DATE: 2001-08-22
/ PRIOR APPLICATION NUMBER: PCT/US01/05614
/ PRIOR FILING DATE: 2001-02-21
/ PRIOR APPLICATION NUMBER: 60/184,836
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: 60/193,170
/ PRIOR FILING DATE: 2000-03-29
/ PRIOR APPLICATION NUMBER: 09/205,258
/ PRIOR FILING DATE: 1998-12-04
/ PRIOR APPLICATION NUMBER: PCT/US98/11422
/ PRIOR FILING DATE: 1998-06-04
/ PRIOR APPLICATION NUMBER: 60/048,885
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/049,375
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,881
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/070,923
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/048,880
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,896
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/049,020
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,876
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,895
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,884
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,894
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,971
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,964
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,882
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,899
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,893
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,900
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,901
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,892
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,915
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/049,019
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,970
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,972
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,916
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/049,373
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,875
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/049,374
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,917
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,949
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,974
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,883
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,897
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,898
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,962
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,963
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,877
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/048,878
/ PRIOR FILING DATE: 1997-06-06
/ PRIOR APPLICATION NUMBER: 60/068,054
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,064
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/068,053
/ PRIOR FILING DATE: 1997-12-18
/ PRIOR APPLICATION NUMBER: 60/070,923
/ PRIOR FILING DATE: 1997-12-18
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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (78)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (80)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (81)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (82)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (103)
; OTHER INFORMATION: Xaa equals stop translation
US-10-004-860-294

Query Match          33.5%; Score 477.5; DB 4; Length 103;
Best Local Similarity 95.0%; Pred. No. 2e-34;
Matches 96; Conservative 0; Mismatches 4; Indels 1; Gaps 1

QY 1 MAPRAALPGSAVLAANAAPVGGAVSSPLVAPDNGSSRTLHSRTTETTPSPSNDTGNHPEYIA 60
DB 1 MAPRAALPGSAVLAANAAPVGGAVSSPLVAPDNGSSRTLHSRTTETTPSPSNDTGNHPEYIA 60
QY 61 YALVPVFFINGLFGVLIC-HLLKKKGRCCTTEAEQDIEEEK 100
DB 61 YALVPVFFINGLFGVLIXPXXXXKKGYRCTTEAEQDIEEEK 101

RESULT 5
US-10-023-282-294
; Sequence 294, Application US/10023282
; Publication No. US20030032893A1
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/10/023,282
; CURRENT FILING DATE: 2001-12-20
; EARLIER APPLICATION NUMBER: 09/205,258
; EARLIER FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: PCT/US98/11422
; EARLIER FILING DATE: 1998-06-04
; EARLIER APPLICATION NUMBER: 60/048,885
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,375
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,881
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,880
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,896
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,020
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,876
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,895
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,884
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,894
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,971
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,964

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; Sequence 633, Application US/099333767  
; Publication No. US20030181692A1  
; GENERAL INFORMATION:  
; APPLICANT: Ni et al.  
; TITLE OF INVENTION: 207 Human Secreted Proteins  
; FILE REFERENCE: P2007P2  
; CURRENT APPLICATION NUMBER: US/09/933,767  
; CURRENT FILING DATE: 2001-08-22  
; PRIOR APPLICATION NUMBER: PCT/US01/05614  
; PRIOR FILING DATE: 2001-02-21  
; PRIOR APPLICATION NUMBER: 60/184,836  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/193,170  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: 09/205,258  
; PRIOR FILING DATE: 1998-12-04  
; PRIOR APPLICATION NUMBER: PCT/US98/11422  
; PRIOR FILING DATE: 1998-06-04  
; PRIOR APPLICATION NUMBER: 60/048,885  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/049,375  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,881  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,880  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,896  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/049,020  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,876  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,895  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,884  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,894  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,971  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,964  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,882  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,899  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,893  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,900  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,901  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,892  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,915  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/049,019  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,970  
; PRIOR FILING DATE: 1997-06-06  
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; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,916  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/049,373  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,875  
; PRIOR FILING DATE: 1997-06-06  
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; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,917  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,949

; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,974  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,883  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,897  
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; PRIOR APPLICATION NUMBER: 60/048,898  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,962  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,963  
; PRIOR FILING DATE: 1997-06-06  
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; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,878  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/068,054  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 60/068,064  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 60/068,053  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 60/070,923  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 60/073,160  
; PRIOR FILING DATE: 1998-01-30  
; PRIOR APPLICATION NUMBER: 60/073,159  
; PRIOR FILING DATE: 1998-01-30  
; PRIOR APPLICATION NUMBER: 60/073,165  
; PRIOR FILING DATE: 1998-01-30  
; PRIOR APPLICATION NUMBER: 60/073,164  
; PRIOR FILING DATE: 1998-01-30  
; PRIOR APPLICATION NUMBER: 60/085,925  
; PRIOR FILING DATE: 1998-05-18  
; PRIOR APPLICATION NUMBER: 60/085,921  
; PRIOR FILING DATE: 1998-05-18  
; PRIOR APPLICATION NUMBER: 60/085,923  
; PRIOR FILING DATE: 1998-05-18  
; PRIOR APPLICATION NUMBER: 60/085,922  
; PRIOR FILING DATE: 1998-05-18  
; PRIOR APPLICATION NUMBER: 60/092,921  
; PRIOR FILING DATE: 1998-07-15  
; PRIOR APPLICATION NUMBER: 60/094,657  
; PRIOR FILING DATE: 1998-07-30  
; NUMBER OF SEQ ID NOS: 1245  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 633  
; LENGTH: 181  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (56)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; NAME/KEY: SITE  
; LOCATION: (57)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; NAME/KEY: SITE  
; LOCATION: (60)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; NAME/KEY: SITE  
; LOCATION: (83)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; NAME/KEY: SITE  
; LOCATION: (84)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; NAME/KEY: SITE  
; LOCATION: (165)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; US-09-933-767-633

Query Match 23.3%; Score 332; DB 3; Length 181;

	Best Local Similarity	85.5%;	Pred. No.	3.6e-21;	Mismatches	65;	Conservative	3;	Mismatches	8;	Indels	0;	Gaps	0;
Qy	97	EEEKVEKIELNDSVNNSDVTGQIVHYIMKNEANADVLKAMVADNSLYDPSPVTPSPG	156	:										
Db	76	KKKVKEXKLNDNSVNNSDVTGQIVHYIMKNEANADVLKAMVADNSLYDPSPVTPSPG	135											
Qy	157	SPPVSPGPLSPGGTGP	172											
Db	136	SPPVSPGLCHQGGRQG	151											
<b>RESULT 8</b>														
US-10-004-860-633														
; Sequence 633, Application US/10004860														
; Publication No. US20030065160A1														
GENERAL INFORMATION:														
APPLICANT: Young et al.														
TITLE OF INVENTION: 207 Human Secreted Proteins														
FILE REFERENCE: P2007P1														
CURRENT APPLICATION NUMBER: US/10/004,860														
CURRENT FILING DATE: 2001-12-07														
Prior Application removed - See File Wrapper or Palm														
NUMBER OF SEQ ID NOS: 1227														
SOFTWARE: PatentIn ver. 2.0														
SEQ ID NO 633														
LENGTH: 181														
TYPE: PRT														
ORGANISM: Homo sapiens														
FEATURE:														
NAME/KEY: SITE														
LOCATION: (56)														
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids														
FEATURE:														
NAME/KEY: SITE														
LOCATION: (57)														
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids														
FEATURE:														
NAME/KEY: SITE														
LOCATION: (60)														
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids														
FEATURE:														
NAME/KEY: SITE														
LOCATION: (83)														
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids														
FEATURE:														
NAME/KEY: SITE														
LOCATION: (84)														
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids														
FEATURE:														
NAME/KEY: SITE														
LOCATION: (165)														
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids														
US-10-004-860-633														
Query Match														
Best Local Similarity														
Matches														
23.3%; Score 332; DB 4; Length 181;														
85.5%; Pred. No. 3.6e-21;														
Mismatches 3; Mismatches 8; Indels 0; Gaps 0;														
Qy	97	EEEKVEKIELNDSVNNSDVTGQIVHYIMKNEANADVLKAMVADNSLYDPSPVTPSPG	156	:										
Db	76	KKKVKEXKLNDNSVNNSDVTGQIVHYIMKNEANADVLKAMVADNSLYDPSPVTPSPG	135											
Qy	157	SPPVSPGPLSPGGTGP	172											
Db	136	SPPVSPGLCHQGGRQG	151											
<b>RESULT 9</b>														
US-10-023-282-633														
; Sequence 633, Application US/10023282														
; Publication No. US20030092893A1														
GENERAL INFORMATION:														

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; PRIOR APPLICATION NUMBER: 60/220,116
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 181
; TYPE: PRT
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: [56]..(57)
; OTHER INFORMATION: X equals any amino acid
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: [60]..(60)
; OTHER INFORMATION: X equals any amino acid
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (83)..(84)
; OTHER INFORMATION: X equals any amino acid
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: [165]..(165)
; OTHER INFORMATION: X equals any amino acid
;
; US-10-620-562-6
;
; Query Match 23.3%; Score 332; DB
; Best Local Similarity 85.5%; Pred. No. 3.6e-
; Matches 65; Conservative 3; Mismatches
;
Qy 97 EEEKVEKIELDSVNSNSTVGGIVHYIMQNEANA
; ::::|
Db 76 KKKYKCKXKLDNSVNSNSTVGGIVHYIMQNEANA
;
Qy 157 SPPVSPGPLSPGCTPG 172
; :|
Db 136 SPPVSPGLCHQGGROG 151
;
;
; RESULT 11
; US-09-057-951-4
; Sequence 4, Application US/09057951
; Patent No. US200202551A1
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas
; TITLE OF INVENTION: NOVEL MOLECULES OF THE
; TITLE OF INVENTION: PROTEIN FAMILY AND USES
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/057,951
; FILING DATE: 09-APR-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Meikiejohn, Ph.D., Anita L.
; REGISTRATION NUMBER: 35,283
; REFERENCE/DOCKET NUMBER: 09404/046001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:

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/ LENGTH: 408 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-09-057-951-4

Query Match      21.5%; Score 307; DB 3; Length 408;
Best Local Similarity 31.0%; Pred. No. 1.8e-18;
Matches 84; Conservative 36; Mismatches 69; Indels 82; Gaps 12;

QY 44 TPSPSNDTGNHPE-----YIAVALVPVFFIMGLFGVLICHLKKKGYRCTTEAE----- 93
Db 122 TRPGNGTRAGGPEETAQAQYAVIAIVPVFCMLGILVNCNLLKRGYHCTAHKEVGP 181
QY 94 -----QDIEEEKVEKIELNDSVNENSDTVGQIVHYIMKNEANADVLKANVAD 140
Db 182 GGGGGINPAYRTED-----ANEDTIGVLRLITEKKNAAALEELLKE 225
QY 141 NSLYDPESPVTPTSPGSPVSPGLSPGTPGKHVC--GHHLHTVGGV--VERDVCRCR 196
Db 226 ---YHSKQLVQTS---HRPVSKLPPAPPNPV--HICPHRHLLHTVQGLASLSGPPCSRCS 277
QY 197 HKWHFI-----KPTNKSRE--SRPRQGEVTVLSVGRFRVTKVHKS 237
Db 278 QKKWPEVLLSPEAVAATTVPVSLLPNPTRVPKAKAGAKAGROGEITILSVGRFRVARI----- 333
QY 238 NOKERSLSMSVSGAETVN-----GEVPATP 262
Db 334 --PEQRTSSMVSEVKTITEAGPSMGDLDPSP 362

RESULT 12
US-10-105-150-4
/ Sequence 4, Application US/10105150
/ Publication No. US20020119524A1
/ GENERAL INFORMATION:
/ APPLICANT: Holtzman, Douglas
/ TITLE OF INVENTION: NOVEL MOLECULES OF THE T129-RELATED
/ NUMBER OF SEQUENCES: 8
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Fish & Richardson P.C.
/ STREET: 225 Franklin Street
/ CITY: Boston
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02110-2804
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: Windows95
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ FILING DATE: 25-Mar-2002
/ APPLICATION NUMBER: US/10/105,150
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 09/057,951
/ FILING DATE: <Unknown>
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Meiklejohn, Ph.D., Anita L.
/ REGISTRATION NUMBER: 35,283
/ REFERENCE/DOCKET NUMBER: 09404/046001
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617/542-5070
/ TELEFAX: 617/542-8906
/ TELEX: 200154
/ INFORMATION FOR SEQ ID NO: 4:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 408 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-10-105-150-4
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Db 226 ---YHSKQLVQTS---HRPVSKLPPAPPNPV--HICPHRHLLHTVQGLASLSGPPCSRCS 277
QY 197 HKWHFI-----KPTNKSRE--SRPRQGEVTVLSVGRFRVTKVHKS 237
Db 278 QKKWPEVLLSPEAVAATTVPVSLLPNPTRVPKAKAGAKAGROGEITILSVGRFRVARI----- 333
QY 238 NOKERSLSMSVSGAETVN-----GEVPATP 262
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/ Sequence 2, Application US/09057951
/ Patent No. US2002002551A1
/ GENERAL INFORMATION:
/ APPLICANT: Holtzman, Douglas
/ TITLE OF INVENTION: NOVEL MOLECULES OF THE T129-RELATED
/ NUMBER OF SEQUENCES: 8
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Fish & Richardson P.C.
/ STREET: 225 Franklin Street
/ CITY: Boston
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02110-2804
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: Windows95
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/057,951
/ FILING DATE: 09-APR-1998
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Meiklejohn, Ph.D., Anita L.
/ REGISTRATION NUMBER: 35,283
/ REFERENCE/DOCKET NUMBER: 09404/046001
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617/542-5070
/ TELEFAX: 617/542-8906
/ TELEX: 200154
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 430 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FRAGMENT TYPE: internal
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/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 408 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
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US-09-057-951-2
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QY 44 TPSPSNDTGNHPE-----YIAVALVPVFFIMGLFGVLICHLKKKGYRCTTEAE----- 93
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Db 144 TROPNGTRAGGPEETAQAQYAVIAVPVFCIMGLGILVNCNLLKRGYHCTAHKEVGGP 203
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Db 204 GGGSGGINPAYRTD-----ANEDTIGVLVRLITEKKENAAALELLKE 247
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Db 248 ---YHSKQLVQTS---HRPVSKLPPAPPNPV--HICPHRHLLHTVQGLASLSGPCCSRCS 299
Qy 197 HKRWHTF-----KPTNKSRE--SRPRROGEVTVLSVGRFRVTKVEHKS 237
Db 300 QKKWPEVLLSPEAVAATTPVPSLLPNTRVPKAKAGRQGEITILSVGRFRVARI---- 355
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US-09-836-607-2
; Sequence 2, Application US/09836607
; Patent No. US20020098541A1
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; TITLE OF INVENTION: TNFR Related Gene 12
; FILE REFERENCE: PF490P1
; CURRENT APPLICATION NUMBER: US/09/836,607
; PRIOR FILING DATE: 2001-04-17
; PRIOR APPLICATION NUMBER: 60/198,388
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: 09/421,112
; PRIOR FILING DATE: 1999-10-19
; PRIOR FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 430
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-836-607-2
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Qy 141 NSLYDPESPVTPTSPGSPVSPGLSPGTPGKHVC--GHHLHTVGV--VERDVCHRCR 196
Db 248 ---YHSKQLVQTS---HRPVSKLPPAPPNPV--HICPHRHLLHTVQGLASLSGPCCSRCS 299
Qy 197 HKRWHTF-----KPTNKSRE--SRPRROGEVTVLSVGRFRVTKVEHKS 237
Db 300 QKKWPEVLLSPEAVAATTPVPSLLPNTRVPKAKAGRQGEITILSVGRFRVARI---- 355
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; Sequence 2, Application US/09421112
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; Publication No. US20030082532A1
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: TNFR Related Gene 12
; FILE REFERENCE: PF490
; CURRENT APPLICATION NUMBER: US/09/421,112
; CURRENT FILING DATE: 1999-10-19
; EARLIER APPLICATION NUMBER: 60/104,950
; EARLIER FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 430
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-421-112-2

Query Match 21.5%; Score 307; DB 3; Length 430;
Best Local Similarity 31.0%; Pred. No. 1.9e-18;
Matches 84; Conservative 36; Mismatches 69; Indels 82; Gaps 12;

Qy 44 TSPSPNDTGNHPE-----YIAVALVPVFFIMGLFGVLICHLLKKGYRCTTEAE----- 93
Db 144 TROPNGTRAGGPEETAQAQYAVIAVPVFCIMGLGILVNCNLLKRGYHCTAHKEVGGP 203
Qy 94 -----QDIEEEKVEKIELNDSVNENSNTVGVQIVHYIMKNEANADVLKAMVAD 140
Db 204 GGGSGGINPAYRTD-----ANEDTIGVLVRLITEKKENAAALELLKE 247
Qy 141 NSLYDPESPVTPTSPGSPVSPGLSPGTPGKHVC--GHHLHTVGV--VERDVCHRCR 196
Db 248 ---YHSKQLVQTS---HRPVSKLPPAPPNPV--HICPHRHLLHTVQGLASLSGPCCSRCS 299
Qy 197 HKRWHTF-----KPTNKSRE--SRPRROGEVTVLSVGRFRVTKVEHKS 237
Db 300 QKKWPEVLLSPEAVAATTPVPSLLPNTRVPKAKAGRQGEITILSVGRFRVARI---- 355
Qy 238 NQKRRSLMSVSGAETVN-----GEVPATP 262
Db 356 --PEQRTSSMVSEVKITITEAGPSWGDLPDSP 384
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Search completed: February 23, 2006, 12:12:15  
Job time : 164 secs

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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: February 23, 2006, 12:08:03 ; Search time 47 Seconds  
(without alignments)  
476.704 Million cell updates/sec

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Perfect score: 1426  
Sequence: 1 MAPRALPGSAVLAANFVGG.....ETVNGEVPATPVKRSRGTE 271

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Total number of hits satisfying chosen parameters: 572060

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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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- 2: /cgm2\_6/ptodata/1/iaa/6\_COMB.pep.\*
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- 4: /cgm2\_6/ptodata/1/iaa/PCTUS\_COMB.pep.\*
- 5: /cgm2\_6/ptodata/1/iaa/RE\_COMB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	477.5	33.5	103	2	US-10-004-860-294
3	332	23.3	181	2	US-09-205-258-633
4	332	23.3	181	2	US-10-004-860-633
5	282	19.8	518	2	US-09-949-016-10986
6	147	10.3	29	2	US-09-205-258-634
7	147	10.3	29	2	US-10-004-860-634
8	103.5	7.3	819	2	US-09-248-796A-15758
9	97.5	6.8	447	2	US-10-104-047-2688
10	97	6.8	287	2	US-08-985-950-6
11	97	6.8	287	2	US-08-985-950-8
12	97	6.8	287	2	US-09-546-049-6
13	97	6.8	287	2	US-09-546-049-8
14	95	6.7	992	2	US-08-890-865A-1
15	94	6.6	793	1	US-08-015-985-3
16	94	6.6	793	2	US-09-280-597-3
17	92.5	6.5	591	2	US-09-248-796A-14242
18	91.5	6.4	527	2	US-09-370-838-216
19	91.5	6.4	527	2	US-09-854-133-216
20	90.5	6.3	8991	2	US-08-714-741-32
21	89.5	6.3	901	2	US-09-828-062-8
22	89	6.2	401	1	US-08-549-004A-5
23	89	6.2	401	2	US-09-051-982A-5
24	89	6.2	605	2	US-09-487-558B-428
25	88	6.2	330	2	US-09-270-767-41611
26	88	6.2	539	2	US-08-906-360-1
27	87.5	6.1	559	2	US-08-956-171E-5251

28	87.5	6.1	559	2	US-08-781-986A-5251	Sequence 5251, Ap
29	87.5	6.1	1420	1	US-08-540-804-14	Sequence 14, Appl
30	87.5	6.1	1420	1	US-08-218-265-14	Sequence 14, Appl
31	87.5	6.1	1420	2	US-08-521-872-14	Sequence 14, Appl
32	87.5	6.1	1420	2	US-08-590-399-14	Sequence 14, Appl
33	87.5	6.1	1420	2	US-08-487-558B-356	Sequence 356, Appl
34	87	6.1	761	2	US-09-198-452A-335	Sequence 335, Appl
35	87	6.1	902	2	US-09-438-185A-319	Sequence 319, Appl
36	86.5	6.1	290	2	US-09-270-767-35246	Sequence 35246, A
37	86.5	6.1	290	2	US-09-270-767-50463	Sequence 50463, A
38	86	6.0	204	2	US-08-529-055-51	Sequence 51, Appl
39	86	6.0	547	2	US-08-221-013A-14	Sequence 14, Appl
40	86	6.0	729	2	US-09-949-016-11190	Sequence 11190, A
41	86	6.0	2753	2	US-09-949-016-7659	Sequence 7659, Ap
42	86	6.0	2753	2	US-09-949-016-7660	Sequence 7660, Ap
43	86	6.0	3924	2	US-09-538-092-1246	Sequence 1246, Ap
44	85.5	6.0	168	2	US-08-529-055-55	Sequence 55, Appl
45	85.5	6.0	183	2	US-08-529-055-50	Sequence 50, Appl

ALIGNMENTS

RESULT 1  
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; Sequence 294, Application US/09205258  
; Patent No. 6525174  
; GENERAL INFORMATION:  
; APPLICANT: Young et al.  
; TITLE OF INVENTION: 207 Human Secreted Proteins  
; FILE REFERENCE: P2007P1  
; CURRENT APPLICATION NUMBER: US/09/205,258  
; CURRENT FILING DATE: 1998-12-04  
; EARLIER APPLICATION NUMBER: PCT/US98/11422  
; EARLIER FILING DATE: 1998-06-04  
; EARLIER APPLICATION NUMBER: 60/048,885  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/049,375  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048,881  
; EARLIER FILING DATE: 1997-06-06  
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; EARLIER APPLICATION NUMBER: 60/048,896  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/049,020  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048,876  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048,895  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048,884  
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; EARLIER APPLICATION NUMBER: 60/048,901  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048,892  
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; EARLIER APPLICATION NUMBER: 60/048,915  
; EARLIER FILING DATE: 1997-06-06



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; EARLIER APPLICATION NUMBER: 60/049,019
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; EARLIER FILING DATE: 1997-06-06
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; EARLIER APPLICATION NUMBER: 60/048,974
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; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,897
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; EARLIER APPLICATION NUMBER: 60/048,898
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; EARLIER APPLICATION NUMBER: 60/048,962
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,963
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,877
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,878
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/070,923
; EARLIER FILING DATE: 1997-12-18

; EARLIER APPLICATION NUMBER: 60/092,921
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 1227
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 633
; LENGTH: 181
; TYPE: PRT
; ORGANISM: Homo sapiens
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; LOCATION: (56)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (57)
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; NAME/KEY: SITE
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; NAME/KEY: SITE
; LOCATION: (83)
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; NAME/KEY: SITE
; LOCATION: (84)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
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; NAME/KEY: SITE
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; US-09-205-258-633

Query Match      23.3%; Score 332; DB 2; Length 181;
Best Local Similarity 85.5%; Pred. No. 1.6e-25;
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Qy 97 EEKVKELINDSVNENSDTVGQIVHYIMKNEANADVLKAWADNSLYDPSPVTPSTPG 156
Db 76 KKKKVEKXLDNSVNSNSDVGQIVHYIMKNEANADVLKAWADNSLYDPSPVTPSTPG 135
Qy 157 SPVPSPGLSPGSGTGG 172
Db 136 SPVPSPGLCHQGGGQG 151

RESULT 4
US-10-004-860-633
; Sequence 633, Application US/10004860
; Patent No. 8914047
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/10/004,860
; PRIOR APPLICATION REMOVED - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 1227
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 633
; LENGTH: 181
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (56)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
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; NAME/KEY: SITE
; LOCATION: (57)
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; EARLIER APPLICATION NUMBER: 60/094,657  
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; LENGTH: 29  
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; ORGANISM: Homo sapiens  
; US-09-205-258-634

Query Match 10.3%; Score 147; DB 2; Length 29;  
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## RESULT 7

US-10-004-860-634  
; Sequence 634, Application US/10004860  
; Patent No. 6314047  
; GENERAL INFORMATION:  
; APPLICANT: Young et al.  
; TITLE OF INVENTION: 207 Human Secreted Proteins  
; FILE REFERENCE: P2007P1  
; CURRENT APPLICATION NUMBER: US/10/004,860  
; CURRENT FILING DATE: 2001-12-07  
; Prior Application removed - See File Wrapper or Palm  
; NUMBER OF SEQ ID NOS: 1227  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 634  
; LENGTH: 29  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-004-860-634

Query Match 10.3%; Score 147; DB 2; Length 29;  
Best Local Similarity 100.0%; Pred. No. 5.9e-08;  
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 124 IMKNEANADVLMKAMVADNSLYDPSPVTP 152  
Db 1 IMKNEANADVLMKAMVADNSLYDPSPVTP 29

## RESULT 8

US-09-248-796A-15758  
; Sequence 15758, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 15758  
; LENGTH: 819  
; TYPE: PRT  
; ORGANISM: Candida albicans  
; US-09-248-796A-15758

Query Match 7.3%; Score 103.5; DB 2; Length 819;  
Best Local Similarity 27.1%; Pred. No. 0.19;  
Matches 26; Conservative 21; Mismatches 38; Indels 11; Gaps 2;  
Qy 91 EAEQDIEEEKVEKIELNDSVNSDVTGQIVHYIMKNEANADVLMKAMVADNSLYDPSPV 150  
Db 721 DKDEDKDKDEEDDDDEYNDENEDTVDELV-----AGFEKVVLPTEDKSMGTSPSPFI 773  
Qy 151 TPSTPGSP-----PVSPGLSPGGTTPGKHVCGHHLHT 182  
Db 774 IPSTPKPKSITPTTSKSTTPTTTTASTETIGKRLST 809

## RESULT 9

US-10-104-047-2688  
; Sequence 2688, Application US/10104047  
; Patent No. 6943241  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: No. 6943241el full length cDNA  
; FILE REFERENCE: HI-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2688  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-104-047-2688

Query Match 6.8%; Score 97.5; DB 2; Length 447;  
Best Local Similarity 20.6%; Pred. No. 0.32;  
Matches 72; Conservative 37; Mismatches 87; Indels 153; Gaps 16;

Qy 29 PDNGSSRSLH-----SRTEPPSPNDTGNHPEYI 59  
Db 73 PDNTTSKTDCLQTKGFSNSTEHRGSAQVKQVEFNCLNRGQSSPQRSYSSSHSSPAKI 132  
Qy 60 AYALVPVPFFINGLFGVLI CHLLKKGYRCRTTEAODIEEEKVEKIELNDSVNSDVT-G 118  
Db 133 -----QRATQEPVAKIEGTQESQMVGSSSTREKASTVLS 166  
Qy 119 QIVHYIMKNEA-----NADVLKAM-----VADNSLY----- 144  
Db 167 QIVASTQPPSPPETPQSGPKACSVLELYAIPDADAVAKSTPKSTPVRPKSLFTSQSGE 226  
Qy 145 -----DPE-SPVTPS-----TPGSPVSPGPLSPGCTPGKHKVCGHHLH 181  
Db 227 AEAPQITDSTTKVQKQPSIKPVTSPSKLVTSPQSEPPAPP-PPRSTSSPYHAGNLLQ 285  
Qy 182 TVGGVVERDVCHRCRH-KRWHF1KPTNKR-----ESPRRQGEVTVL 223  
Db 286 -----RHPTNW--TKPTSPTSTRBAESVLHSEGRRAADAKPKRW--ISFK 327

Qy		224 SVGRFRVTKVE-HKSQNKERRSLMSVSGAETYNGEVPATPVKRERSGTE	271
Db		328 SFFRRKTTDEEDDKERKEKGKLVLGDG--TVTHMLPPPPPVRHHWFTE	374

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Query Match	5.8%	Score 97	DB 2	Length 287
Best Local Similarity	22.7%	Pred. No. 0.19		
Matches	58	Conservative 45	Mismatches 105	Indels 48
Gaps	14			
Qy	34	SRTLHSRTETTPSPSNDTGNHGPEYIAVALVPV-----FFIMGLFGVLILCHLLKKKKGYRC	88	
Db	16	AQIHTQEEIDLPRISIAEPG-----TVPLGSHVTFVCRGPVGQTFPLERES--RS	66	
Qy	89	TTEAEQDIEBEKVEKIELN-----DSVNENSDTVGQIVHY-IMKNBANADVLMKAMVADNSLY	144	
Db	67	TYNDEDVSOAPSSESEARFIDSVSEGNAGPYRCIYKPKWSEQSDYLELLVKETS-G	125	
Qy	145	DPESPVT-RSTPGSPVPSP-----GPLSPGTPGKHVCGHLLHTVGGV-VERDVCHR	194	
Db	126	GPDSPTDETGSSAGTQRPDSNSINHAIPASQG-----LKAELHYILIIGVSVFLPCLL	179	
Qy	195	-----CRHKRWHFIK---PTNKSRESRPRRQGEVTV-----LSVGFRFRTKVYEHKSNOKER	242	
Db	180	LLVLFLCLH-RONQIKOGPPRASKDEQKPOORPDIAVDLERTADKATVNGLPEKORETDT	238	

Qy 243 RSLMSVSGAETNGEV 258  
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Dy 239 SALAAGSSQEVTYAO 254

RESULT 11  
US-08-985-950-8  
Sequence 8, Application US/08985950  
Patent No. 6140076  
GENERAL INFORMATION:  
APPLICANT: Adena, Gorse Jan  
TITLE OF INVENTION: Isolated Mammalian Monocyte Cell Genes;  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: DNAX Research Institute  
STREET: 901 California Avenue  
CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94304-1104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/985,950  
FILING DATE: 05-DEC-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/041,279  
FILING DATE: 21-MARCH-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/033,181  
FILING DATE: 16-DEC-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/032,252  
FILING DATE: 06-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Ching, Edwin P.  
REGISTRATION NUMBER: 34,090  
REFERENCE/DOCKET NUMBER: DX0670K  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650)852-9196  
TELEFAX: (650)496-1204  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 287 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-985-950-8

Query Match	6.8%	Score 97;	DB 2;	Length 287;
Best Local Similarity	22.7%;	Pred. No.	0.19;	
Matches	58;	Conservative	45;	Mismatches 105; Indels 48; Gaps 14;
Qy	34	SRTLHSGRTTTPSPNDTGNGHPYIAYALVPV----	PFIMGLFGVLICHLLKKGGYRC	88
		: : : :	: : :	:
Db	16	AQHIIHQEEDLPPTSISAEFG-----	TVIPLGSHVTFCRGPVGQTFRLERES--RS	66
		: : : :	: : :	:
Qy	89	TTBAEQDIEEKVEKIELN---DSVNENSTVGQIVHY-IMKNKANADVLKAMVADNSLY	144	
		: : :	: : :	:
Db	67	TYNTDTEVSQAQPSSEGEARPRIDSVSEGNAGPYRCIYYKPKNSEQSDYLLELLVKETS-G	125	
		: : :	: : :	:
Qy	145	DPBSPVT-PSTPGSPPVSP-----GPLSPGQTGPKHVCGHHHTVGVG-VERDVCHR	194	
		: : : :	: : :	:
Db	126	GPDSPDTDEGSSAGPTQRPSDNHNHEAPASQG-----LKAEHLIILIGSVVFELCLL	179	
		: : : :	: : :	:
Qy	195	-----CRHKGWHFIK----PTNKSRGRPRRQGEVTV-----LSVGRFRVTKVEHKSNOKER	242	
		: : : :	: : :	:
Db	180	LLVLFLCLH-RONOIKGPPRASKEOEKPOORPOLADVLTERTADKATVNGLPSEKDRETD	238	
		: : : :	: : :	:

Qy 243 RSLMSVSGAETVNGEV 258  
Db 239 SALAAGSSQEVTYAQL 254

## RESULT 12

US-09-546-049-6  
; Sequence 6, Application US/09546049  
; Patent No. 6479638  
; GENERAL INFORMATION:  
; APPLICANT: Adema, Gosse Jan  
; Meyaard, Linde  
; Gorman, Daniel M.  
; McClanahan, Terrill K.  
; Zurawski, Sandra M.  
; Zurawski, Gerard  
; Lanier, Lewis L.  
; Phillips Jr., Joseph H.  
; TITLE OF INVENTION: Isolated Mammalian Monocyte Cell Genes;  
; Related Reagents  
; NUMBER OF SEQUENCES: 22  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: DNAX Research Institute  
; STREET: 901 California Avenue  
; CITY: Palo Alto  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94304-1104  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/546,049  
; FILING DATE: 10-Apr-2000  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/985,950  
; FILING DATE: 05-DEC-1997  
; APPLICATION NUMBER: US 60/041,279  
; FILING DATE: 21-MARCH-1997  
; APPLICATION NUMBER: US 60/033,181  
; FILING DATE: 16-DEC-1996  
; APPLICATION NUMBER: US 60/032,252  
; FILING DATE: 06-DEC-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ching, Edwin P.  
; REGISTRATION NUMBER: 34,090  
; REFERENCE/DOCKET NUMBER: DX0670K  
; TELEPHONE: (650) 852-9196  
; TELEFAX: (650) 496-1204  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 287 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Query Match 6.8%; Score 97; DB 2; Length 287;  
Best Local Similarity 22.7%; Pred. No. 0.19; Indels 48; Gaps 14;  
Matches 56; Conservative 45; Mismatches 105; Indels 48; Gaps 14;

Qy 34 SRTLSHRTTPSPNDTGNHPEYIAALVPV-----FTIMGLFGVLICHLAKKGYRC 88  
Db 16 AQTHTQEDLPRPSIAEPG-----TWPLGSHVTFVCRGPGVGVQTFLERES--RS 66  
Qy 89 TTEAQDIEBKVKIELN---DSVNSDVTGQIVHY-IMKNEANADVLKAMVADNSLY 144  
Db 67 TYNDTVDVSQSPSEARFRIDSVSEGNAGPYRCIYKPKKWEQSDYLELLVKETS-G 125

Qy 145 DPSPVT-PSTPGSPVPVSP-----GPLSPGTPGKHVCGHHLHTVGGV-VERDVCHR 194  
Db 126 GPDSPTPEGSGAGPTQRPDSNDSHNEHAPASQG-----LKAELHYILIGSVVFLFCLL 179  
Qy 195 -----CRKKEWHFIK---PTNKSRESRPRGGEVTV-----LSVGRFRVTKVHEKSNOKER 242  
Db 180 LLVLFCLH-RQNLIKQPPRSKDEEQPQRPDLAVDLBERTADKATVNGLPESKDREYDT 238  
Qy 243 RSLMSVSGAETVNGEV 258  
Db 239 SALAAGSSQEVTYAQL 254

## RESULT 13

US-09-546-049-8  
; Sequence 8, Application US/09546049  
; Patent No. 6479638  
; GENERAL INFORMATION:  
; APPLICANT: Adema, Gosse Jan  
; Meyaard, Linde  
; Gorman, Daniel M.  
; McClanahan, Terrill K.  
; Zurawski, Sandra M.  
; Zurawski, Gerard  
; Lanier, Lewis L.  
; Phillips Jr., Joseph H.  
; TITLE OF INVENTION: Isolated Mammalian Monocyte Cell Genes;  
; Related Reagents  
; NUMBER OF SEQUENCES: 22  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: DNAX Research Institute  
; STREET: 901 California Avenue  
; CITY: Palo Alto  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94304-1104  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/546,049  
; FILING DATE: 10-Apr-2000  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/985,950  
; FILING DATE: 05-DEC-1997  
; APPLICATION NUMBER: US 60/041,279  
; FILING DATE: 21-MARCH-1997  
; APPLICATION NUMBER: US 60/033,181  
; FILING DATE: 16-DEC-1996  
; APPLICATION NUMBER: US 60/032,252  
; FILING DATE: 06-DEC-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ching, Edwin P.  
; REGISTRATION NUMBER: 34,090  
; REFERENCE/DOCKET NUMBER: DX0670K  
; TELEPHONE: (650) 852-9196  
; TELEFAX: (650) 496-1204  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 287 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Query Match 6.8%; Score 97; DB 2; Length 287;  
Best Local Similarity 22.7%; Pred. No. 0.19; Indels 48; Gaps 14;  
Matches 58; Conservative 45; Mismatches 105; Indels 48; Gaps 14;





Db	318	MIWEQNTATIVMTNLKERCKCAQYWPDDQGWYGNVRVSVEDVTVLVDYTVRKFSIQ	377
Qy	232	KVEHKSQKERRSLMSVSGAETVNGEVPATPV	263
Db	378	QVGDVTRKPKQRLITQFHFTSWPDDFGVFFPI	409

Search completed: February 23, 2006, 12:09:26  
Job time : 48 secs

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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: February 23, 2006, 12:00:48 ; Search time 231 Seconds  
(without alignments)  
827.698 Million cell updates/sec

Title: US-10-620-562-2  
Perfect score: 1426  
Sequence: 1 MAPRALPGSAVLAFAVFG.....ETVNGSVPTPVKRSRGTE 271

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Uniprot\_05.80.\*

1: uniprot\_sprot.\*

2: uniprot\_trembl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1426	100.0	271	2	Q8IUW5 HUMAN
2	1421	99.6	271	2	Q8NBK1 HUMAN
3	986	69.1	202	2	Q8K2J7 MOUSE
4	854.5	59.9	288	2	O5F3A4 CHICK
5	699	49.0	143	2	Q8R3S5 MOUSE
6	669	46.9	223	2	Q7T0N2 XENLA
7	641.5	45.0	224	2	Q6NRQ3 XENLA
8	581	40.7	280	2	Q5M7X6 BRARE
9	422.5	29.6	281	2	Q4SRN7 TETNG
10	309	21.7	430	1	TR19L MACFA
11	307	21.5	430	1	TR19L HUMAN
12	295.5	20.7	436	1	TR19L MOUSE
13	289	20.3	294	2	Q8CFT0 MOUSE
14	289	20.3	303	2	Q8BRJ3 MOUSE
15	289	20.3	325	2	Q6DIW4 XENTR
16	286	20.1	302	2	Q5FVJ4 RAT
17	286	20.1	327	2	Q68EV2 XENLA
18	284	19.9	303	2	Q6P4E7 HUMAN
19	284	19.9	303	2	Q6UXY2 HUMAN
20	284	19.9	303	2	Q8NC24 HUMAN
21	282.5	19.8	401	2	Q6N211 BRARE
22	158.5	11.1	163	2	Q4SEL6 TETNG
23	152.5	10.7	52	2	Q4S205 TETNG
24	138	9.7	29	2	Q4WSD7 HUMAN
25	110.5	7.7	2287	2	Q8I520 PLAF7
26	110	7.7	1244	2	Q51RT1 MAGGR
27	109	7.6	392	2	Q9I8G8 CHEMY
28	109	7.6	875	2	Q5FWN0 XENLA
29	108	7.6	800	2	Q5AH61 CANAL
30	108	7.6	800	2	Q5AIP1 CANAL
31	107.5	7.5	515	2	Q4H311 CIOIN

32	106.5	7.5	805	2	Q5SMF2 CRYNE
33	106	7.4	795	2	Q6EUQ1 ORYSA
34	105.5	7.4	805	2	Q5K8C2 CRYNE
35	105.5	7.4	1083	2	Q12075 PNECA
36	105.5	7.4	3140	2	Q52V19 POTV
37	104.5	7.3	1679	2	Q26607 SCHMA
38	104.5	7.3	1791	2	Q9U6D4 PLABE
39	104	7.3	1787	2	Q25645 PLABE
40	103.5	7.3	384	2	Q8V918 POTV
41	103	7.2	749	2	Q72SP6 LEPIC
42	103	7.2	749	2	Q8F2V5 LEPIN
43	103	7.2	1279	2	Q4S711 TETNG
44	102.5	7.2	1751	2	Q5E9H4 BOVIN
45	102.5	7.2	1829	2	Q7XSE96 ORYSA

ALIGNMENTS

RESULT 1  
Q8IUW5 HUMAN PRELIMINARY; PRT; 271 AA.  
AC Q8IUW5  
DT 01-MAR-2003 (Tremblrel. 23, Created)  
DT 01-MAR-2003 (Tremblrel. 23, Last sequence update)  
DE 01-MAR-2003 (Tremblrel. 23, Last annotation update)  
DE Similar to expressed sequence AA536743.  
OS Homo sapiens (human).  
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;  
OC Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP NUCLEOTIDE SEQUENCE.  
RC TISSUE=pancreas;  
RX MDLLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner K.H., Shenmen C.M., Schuler N.K.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Scapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Uedin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Fahy J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalek U., Smailus D.E.,  
RA Schurch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length human  
and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
RN [2]  
RP NUCLEOTIDE SEQUENCE.  
RC TISSUE=pancreas;  
RA Strausberg R.;  
RL Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.  
DR EMBL; BC039540; AAH39540.1; -; mRNA.  
DR Ensembl; ENSG00000181826; Homo sapiens.  
SQ SEQUENCE 271 AA; 29340 MW; D85AAA08E6349EA7 CRC64;

Query Match 100.0%; Score 1426; DB 2; Length 271;  
Best Local Similarity 100.0%; Pred. No. 3.2e-100;  
Matches 271; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MAPRALPGSAVLAFAVFGAVSSPLVAPDNGSSRTLSHSTETTPPSDNGHGPYIA	60
Db	1	MAPRALPGSAVLAFAVFGAVSSPLVAPDNGSSRTLSHSTETTPPSDNGHGPYIA	60

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QY 61 YALVPVFFIMGLFGVLICHLLKKKGYRCTTAEQDIEEEKVEKIELNDSVNENSDTVGQI 120
DB 61 YALVPVFFIMGLFGVLICHLLKKKGYRCTTAEQDIEEEKVEKIELNDSVNENSDTVGQI 120
QY 121 VHYIMKNEANADVLKAMVADNSLYDPSPVTPSTPGSPVSPGSPVTPGKHVCGHIL 180
DB 121 VHYIMKNEANADVLKAMVADNSLYDPSPVTPSTPGSPVSPGSPVTPGKHVCGHIL 180
QY 181 HTVGGVVERDVCHRCRKHWHFIKPTNKSRESRPRRQGEVTVLSVGRFRVTKEVHKSNOK 240
DB 181 HTVGGVVERDVCHRCRKHWHFIKPTNKSRESRPRRQGEVTVLSVGRFRVTKEVHKSNOK 240
QY 241 ERRSLMSVSGAETVNGEVPATPVKRSRSGTE 271
DB 241 ERRSLMSVSGAETVNGEVPATPVKRSRSGTE 271
u
RESULT 2
Q8NBK1_MOUSE PRELIMINARY; PRT; 271 AA.
ID Q8NBK1_MOUSE PRELIMINARY; PRT; 271 AA.
AC Q8NBK1_MOUSE PRELIMINARY; PRT; 271 AA.
DT 01-OCT-2002 (T-EMBLrel. 22, Created)
DT 01-OCT-2002 (T-EMBLrel. 22, Last sequence update)
DE CNA PSEC0162 fis, clone PLACE1009772.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
OC Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Placenta;
RA Otsuki T., Ota T., Nishikawa T., Hayashi K., Suzuki Y., Yamamoto J.,
RA Wakamatsu A., Kimura K., Sakamoto K., Hatano N., Kawai Y., Ishii S.,
RA Saito K., Kojima S., Sugiyama T., Ono T., Okano K., Yoshikawa Y.,
RA Aotsuka S., Sasaki N., Hattori A., Okumura K., Nagai K., Sugano S.,
RA Tsogai T.;
RT "Signal Sequence and Keyword Trap in silico for Selection of Full-
RT Length Human cDNAs Encoding Secretion or Membrane Proteins from Oligo-
RT Capped cDNA Libraries.";
RL DNA Res. 12:117-126(2005).
DR EMBL; AK075468; BAC11638.1; -; mRNA.
SQ SEQUENCE 271 AA; 29310 MW; 385AAA0A97258FBD CRC64;
Query Match 99.6%; Score 1421; DB 2; Length 271;
Best Local Similarity 99.6%; Pred. No. 7,7e-100;
Matches 270; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MAPRALPGSAVLAAPVGVGAVSPVAPDNGSRSLHSTETTPSPNDTGNCHPEYIA 60
DB 1 MAPRALPGSAVLAAPVGVGAVSPVAPDNGSRSLHSTETTPSPNDTGNCHPEYIA 60
QY 61 YALVPVFFIMGLFGVLICHLLKKKGYRCTTAEQDIEEEKVEKIELNDSVNENSDTVGQI 120
DB 61 YALVPVFFIMGLFGVLICHLLKKKGYRCTTAEQDIEEEKVEKIELNDSVNENSDTVGQI 120
QY 121 VHYIMKNEANADVLKAMVADNSLYDPSPVTPSTPGSPVSPGSPVTPGKHVCGHIL 180
DB 121 VHYIMKNEANADVLKAMVADNSLYDPSPVTPSTPGSPVSPGSPVTPGKHVCGHIL 180
QY 181 HTVGGVVERDVCHRCRKHWHFIKPTNKSRESRPRRQGEVTVLSVGRFRVTKEVHKSNOK 240
DB 181 HTVGGVVERDVCHRCRKHWHFIKPTNKSRESRPRRQGEVTVLSVGRFRVTKEVHKSNOK 240
QY 241 ERRSLMSVSGAETVNGEVPATPVKRSRSGTE 271
DB 241 ERRSLMSVSGAETVNGEVPATPVKRSRSGTE 271
RESULT 3
Q8K2J7_MOUSE PRELIMINARY; PRT; 202 AA.
ID Q8K2J7_MOUSE PRELIMINARY; PRT; 202 AA.
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AC Q8K2J7;
DT 01-OCT-2002 (T-EMBLrel. 22, Created)
DT 01-OCT-2002 (T-EMBLrel. 22, Last sequence update)
DE Expressed sequence AA536743.
GN Name=AA536743;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=FVB/N-3, and C57BL/6J;
RC TISSUE=Embryo, and
RC Mammary tumor. MMTV-LTR/INT3 model. 5 month old mouse. Taken by
RC biopsy.
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,
RA Diatchenko I., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Brownstein M., Soates M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McWray P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=FVB/N-3;
RC TISSUE=Mammary tumor. MMTV-LTR/INT3 model. 5 month old mouse. Taken by
RC biopsy.
RA Strausberg R.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C57BL/6J; TISSUE=Embryo;
RA Director MGC Project;
RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC031198; AAH31198.1; -; mRNA.
DR EMBL; BC066137; AAH66137.1; -; mRNA.
DR EMBL; BC066160; AAH66160.1; -; mRNA.
DR Ensembl; ENSMUSG0000047881; Mus musculus.
DR MGI; MGI:2140767; AA536743.
SQ SEQUENCE 202 AA; 22263 MW; 092F50EAF995B6B8 CRC64;
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Query Match 69.1%; Score 986; DB 2; Length 202;
Best Local Similarity 91.1%; Pred. No. 6.3e-67;
Matches 184; Conservative 9; Mismatches 9; Indels 0; Gaps 0;
QY 70 MGLFGVLICHLLKKKGYRCTTAEQDIEEEKVEKIELNDSVNENSDTVGQIVHYIMKNEA 129
DB 1 MGLFGVLICHLLKKKGYRCTTAEQDIEEEKVEKIELNDSVNENSDTVGQIVHYIMKNEA 60
QY 130 NADVLKAMVADNSLYDPSPVTPSTPGSPVSPGSPVTPGKHVCGHILHTVGGVVER 189
DB 61 NADVLKAMVADNSLYDPSPVTPSTPGSPVSPGSPVTPGKHVCGHILHTVGGVVER 120
QY 190 DVCHRCRKHWHFIKPTNKSRESRPRRQGEVTVLSVGRFRVTKEVHKSNOKERRSLMSVS 249
DB 121 DVCHRCRKHWHFIKPTNKSRESRPRRQGEVTVLSVGRFRVTKEVHKSNOKERRSLMSVS 180
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QY 250 GAETVNGEVPATPVKRSRSGTE 271
Db 181 GIESVNGDVPATPVKRSRSDTE 202

RESULT 4
QSP3A4_CHICK
ID QSP3A4_CHICK PRELIMINARY; PRT; 288 AA.
AC QSP3A4;
DT 10-MAY-2005 (TrEMBLrel. 30, Created)
DT 10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
DE Hypothetical protein.
GN OXPNames=RCJMB04.24124;
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=CB; TISSUE=Bursa;
RA Caldwell R.B., Kierzek A.M., Arakawa H., Bezzubov Y., Zaim J.,
RA Fiedler P., Kutter S., Blagodatski A., Kostovska D., Koter M.,
RA Plachy J., Carninci P., Hayashizaki Y., Buerstedde J.M.;
RT "Full-length cDNAs from chicken bursa lymphocytes to facilitate
RT gene function analysis.";
RL Genome Biol. 6:R6-R6(2005).
DR EMBL; AJ851746; CAF65380.1; -; mRNA.
KW Hypothetical protein.
SQ SEQUENCE 288 AA; 31157 MW; 07DC2D83E938C7BD CRC64;

Query Match 59.9%; Score 854.5; DB 2; Length 288;
Best Local Similarity 61.0%; Pred. No. 9.3e-57;
Matches 177; Conservative 36; Mismatches 50; Indels 27; Gaps 8;

QY 1 MAPRALPGSAVLA-----AAVFVGAVSSPLVADPDNGSSRTLHR--TETTPSPNDTGN 53
Db 1 MAPPAAGSIPSLPSLPTAWLGN-----RSDLGVDQALASRDLPFTTTVAGNNKP 53

QY 54 GHPEYIAYLVPPFFIMGLFGLVLCILKKGYRCTTEAQDIEERKV-EKIELNDVNE 112
Db 54 EHLEYAVFLVPPFFIMGLILGLICLVKKGKGYRCTTEAEVEEERKPKDKIENETAHE 113

QY 113 NSDTVGQIVHYIMKNEANADVLRKAWADNSLYDPESPVTPTSPGSPVSPG-PLSPGQTP 171
Db 114 NSDTVGQIIINYIMKNEANADVLRKAWADSSVFEPESPMPNPGS-PTSPGSPSPGAS 172

QY 172 GKHYC-GHLLHTVGGVVERDVCHCRKRWHPFKPTNKSRESRPRRQGEVTVLSVGRFRV 230
Db 173 LGHCKGHLLHTVGGVIEKDVCSCHKRWHPKPAHKSKEHRRSLRGLGEVTVLSVGRFRV 232

QY 231 TKVEHKSQKRSLSMSVSGAETVNGEVPATPVKRE-----RSGTE 271
Db 233 TKVEHKSNSKRSLSMSVTVGELGNDMPATPVKQEAKEAPATPVKEGTQ 282

RESULT 5
QBR355_MOUSE
ID QBR355_MOUSE PRELIMINARY; PRT; 143 AA.
AC QBR355;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE AA536743 protein (Fragment).
GN Name=AA536743;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.

STRAIN=CZECH II;
TISSUE=Mammary tumor metastasized to lung. Tumor arose spontaneously;
MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Brownstein M.J., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.B.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
Richards S., Worley K.C., Haie S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Whiting M., Madan A., Young A.C., Shevchenko V., Bouffard G.G.,
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
Butterfield Y.S.N., Krzywinski M.I., Skalska U.,
Schnerch A., Schein J.B., Jones S.J.M., Marra M.A.;
"Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=CZECH II;
TISSUE=Mammary tumor metastasized to lung. Tumor arose spontaneously;
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC024679; AAH24679.1; -; mRNA.
DR MGI; MGI:2140767; AA536743.
FT NON TER
SQ SEQUENCE 143 AA; 15527 MW; 59547DA0F91D5D42 CRC64;

Query Match 49.0%; Score 699; DB 2; Length 143;
Best Local Similarity 90.9%; Pred. No. 2.8e-45;
Matches 130; Conservative 6; Mismatches 7; Indels 0; Gaps 0;

QY 129 ANADVLKAMVADNSLYDPESPVTPTSPGSPVSPGSPGTPGKHVCGHLLHTVGGVVE 188
Db 1 ANADILKAMVADNSVGDIESPVTPTSPGSPVSPGSPGATPGKHVCGHLLHTVGGVVE 60

QY 189 RDVCHRCRHRKRWHPFKPTNKSRESRPRRQGEVTVLSVGRFRVTKVEHKSQKRSLSMSV 248
Db 61 RDVCQRCHRCRHWHPFKPTNKTKEGRPRRQGEVTVLSVGRFRVTKVEHKSQKRSLSMSV 120

QY 249 SGAEVNGEVPATPVKRSRSGTE 271
Db 121 SGIESVNGDVPATPVKRSRSDTE 143

RESULT 6
Q7TON2_XENLA
ID Q7TON2_XENLA PRELIMINARY; PRT; 223 AA.
AC Q7TON2;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE MGC69140 protein.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae;
OC Xenopodinae; Xenopus; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Ovary;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
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RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Uedin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Pahay J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalls D.E.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences".  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
[2]  
RN NUCLEOTIDE SEQUENCE.  
RN TISSUE=Ovary.  
RC MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;  
RX Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,  
RA Richardson P.,  
RA "Genetic and genomic tools for Xenopus research: The NIH Xenopus  
RT Initiative".  
RT Dev. Dyn. 225:384-391(2002).  
RN [3]  
RN NUCLEOTIDE SEQUENCE.  
RN TISSUE=Ovary.  
RC Klein S., Strausberg R.,  
RA Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.  
RL EMBL; BC056115; AAH56115.1; -; mRNA.  
SQ SEQUENCE 223 AA; 24273 MW; 5B88CD32032367AB CRC64;

Query Match	46.9%	Score 669;	DB 2;	Length 223;
Best Local Similarity	65.4%;	Pred. No. 8.7e-43;		
Matches 142; Conservative	21;	Mismatches 36;	Indels 18;	Gaps 9;

  

Qy	70	MGLFGVLI	CHLLKKGRCYCTEASQDIEEEKV-EKIELNDSVNIS-NSDTVGQIVHYIMGN	127
Db	1	MGLGVVLI	CHLLKKGRCYCTEAPPVVEIKVGEKLEMQESTGTDNTDTVGQIVDFPMKN	60
Qy	128	EANADVLKAMVADNSL-----	YDPESVPVSTPGSP--PVSF-GPLSPGGTPOKHVC-G	177
Db	61	EANADILKAMVADNSI	VGDTSVFDPESPSTPTENTPGSPITPDTPISPTSPAETPSKHSCKG	120
Qy	178	HHLHTVGGVVERDVCHRCRKHWHFI	KPTNKSRSSRPQRCEVTLSVSGRRFRVTKVZHK	237
Db	121	HHLHTVGSVAERNACTRCTNKGHFLKS	PQKHKEPRSHQGAVTVLSVGRFRVTKVZPKS	180
Qy	238	NQKRSLMSVSGAETNGVEPATPVX---	RERSGTE	271
Db	181	--KERKLMA--DRSEGTNGVEPATPV	SVDTRQRSQTD	214

RESULT 7		
Q6NRQ3	XENLA	
ID	Q6NRQ3_XENLA PRELIMINARY;	PRT; 224 AA.
AC	Q6NRQ3;	
DT	05-JUL-2004	(T'REMLrel. 27, Created)
DT	05-JUL-2004	(T'REMLrel. 27, Last sequence update)
DT	05-JUL-2004	(T'REMLrel. 27, Last annotation update)
DE	MGC83066	protein.
GN	Name=MGC83066;	
OS	Xenopus laevis	(African clawed frog).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
OC	Amphibia; Batrachia; Anura; Mesobatrachia; Pipidoidea; Pipidae;	
OC	Xenopodinae; Xenopus; Xenopus.	
NCBI_TaxID=8355;		
[1]		
RP	NUCLEOTIDE SEQUENCE.	
RC	TISSUE=Ovary;	
RX	MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;	
RA	Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,	
RA	Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,	

RA	Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,	
RA	Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,	
RA	Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,	
RA	Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,	
RA	Brownstein M.J., Uesdin T.B., Toehiyuki S., Carninci P., Prange C.,	
RA	Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,	
RA	Bosak S.A., McEwan P.J., McKernan K.G., Malek J.A., Gunaratne P.H.,	
RA	Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,	
RA	Vallalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,	
RA	Fahay J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,	
RA	Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,	
RA	Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,	
RA	Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,	
RA	Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalhus D.E.,	
RA	Schmerch A., Schein J.E., Jones S.J.M., Marra M.A.,	
RT	"Generation and initial analysis of more than 15,000 full-length human	
RT	and mouse cDNA sequences.";	
RT	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).	
RN	[2]	
RN	NUCLEOTIDE SEQUENCE.	
RC	TISSUE=Ovary;	
RC	MEDLINE=22341133; PubMed=12454917; DOI=10.1002/dvdy.10174;	
RX	Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,	
RA	Richardson P.;	
RA	"Genetic and genomic tools for Xenopus research: The NIH Xenopus	
RT	initiative.";	
RL	Dev. Dyn. 225:384-391 (2002).	
RN	[3]	
RN	NUCLEOTIDE SEQUENCE.	
RC	TISSUE=Ovary;	
RL	Klein S., Strausberg R.;	
RL	Submitted (MAY-2004) to the EMBL/GenBank/DBJ databases.	
DR	EMBL: BC070680; AAH70680.1; -; mRNA.	
SQ	SEQUENCE 224 AA; 24512 MW; 516BF3010B11D9F0 CRC64;	
	Query Match	
	Best Local Similarity 63.8%; Pred. No. 1.1e-40;	
	Matches 139; Conservative 21; Mismatches 39; Indels 19; Gaps	9
Qy	70 MGLFGVLIHLKKKKGYRCCTEABQDIEEEKV--EKLELNDSVNE--NSDTVGQIVHYIMK 126	
Db	1 MGLVGVLIIHLKKKKGYRCCTEABPPVPEKIVGEKIEHMSNGDNTDTVGHI VNFIMK 60	
Qy	127 NEANADVLKAWADN-----SLYDPSPTPTPGS--PVPSP-GPLSPGCTPGKHVC- 176	
Db	61 NEANADVLKAWADNSVVGDTSVFDPSPPTPTPTPLPDTISPTSPITETSKHSCR 120	
Qy	177 GHLLHTVGGVVRDVRCHRCRKHWHFKPTNKSRESRPRRGEVTVLSVGRFRTKVBEHK 236	
Db	121 GSHLHTVGGVVAERNVCSRCTNKGRLHLLKSPQKHKEPRRSHQCAVTVLSVGRFRTKVBEPK 180	
Qy	237 SNOKERSLMSVSGAETVNGEVPATPVK---RERSGTE 271	
Db	181 S--KERKRLMA-DRTEATNGEIPVTPVRVDRQRSGTD 215	
RESULT 8		
Q5M7X6_BRARE		
ID	Q5M7X6_BRARE PRELIMINARY; PRT; 280 AA.	
AC	Q5M7X6;	
DT	01-FEB-2005 (TrEMBLrel. 29, Created)	
DT	01-FEB-2005 (TrEMBLrel. 29, Last sequence update)	
DT	01-FEB-2005 (TrEMBLrel. 29, Last annotation update)	
DE	LOC553285 protein (Fragment).	
GN	Name=LOC553285;	
OS	Brachydanio rerio (zebrafish) (Danio rerio).	
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
OC	Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;	
OC	Cyprinidae; Danio.	
OX	NCBI_TaxID=7955;	
RN	[1]	
RN	NUCLEOTIDE SEQUENCE.	
RC	TISSUE=whole;	

RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haie H.F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldi M.P., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S.K., Wozley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalón D.K., Morley D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Pheby J., Helton E., Kettelman M., Madan A.C., Rodriguez S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalek U., Smailus D.B.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
RN [2]  
RP NUCLEOTIDE SEQUENCE.  
RC TISSUE=Whole;  
RG NIH MCC Project;  
RL Submitted (DEC-2004) to the EMBL/GenBank/DBJ databases.  
DR EMBL; BC088389; AAH88389.1; -, mRNA.  
FT NON TER 1  
SQ SEQUENCE 280 AA; 30423 MW; 251CCA8028435E76 CRC64;  
  
Query Match 40.7%; Score 581; DB 2; Length 280;  
Best Local Similarity 49.6%; Pred. No. 5.5e-36;  
Matches 123; Conservative 43; Mismatches 62; Indels 20; Gaps 9;  
  
QY 29 PDNGSTLHSTRTTTPSPNDGNGHPXIVAVLVPFIMGLFGVLI CHLLKCKCYRC 88  
DB 22 PMAGSSUSTNS---TTGGNGHSGDHPENIAFLVFFFLMGLGLVLI CHLLKCKCYRC 78  
  
QY 89 TTEAQDIE-----EKKVKIELNSVNE-NSDTVGQIVHYIMKNEANADVLKAMVADN 141  
DB 79 TTEABEEQLEKERRDELEKGLDNTFSEGNADTVGQIVHYIMKNEANSALKAMVQD- 137  
  
QY 142 SLVDPESPVTPTSPGSPVSPGLSPG--GTPGHVCGHLLHTVGVV-BRDVCHRCRHK 198  
DB 138 SIDSEGGVPTPTPTPTPTSPSPAAGLPPTAAKHTC-NHLHTTGGISGHKNCHRCNQK 196  
  
QY 199 RWHFIKTKNSRSRPRQGEVTVLSVGRFVTVKHSNQKRRSLMSVSGAETVNGEV 258  
DB 197 KWPLRRSSKKLDRRSHVGVTVLSVGRFVTVKCDPKT-ARERRTLLITE----PNGSV 251  
  
QY 259 PATPVKKE 266  
DB 252 SPSPASTQ 259  
  
RESULT 9  
Q4SRN7 TETNG PRELIMINARY; PRT; 281 AA.  
AC Q4SRN7 TETNG PRELIMINARY; PRT; 281 AA.  
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)  
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)  
DE Chromosome undetermined SCAF14506, whole genome shotgun sequence.  
GN ORFNames=GSTENG00013829001;  
OS Tetraodon nigroviridis (Green puffer).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
OC Acanthomorpha; Acanthopterygii; Perciformes; Tetraodontiformes;  
OC Tetraodontidae; Tetraodontidae; Tetraodon.  
OX NCBI\_TaxID=99883;  
RN [1]  
RP NUCLEOTIDE SEQUENCE.  
RA Jaillon O., Aury J.M., Brunet F., Petit J.L., Stange-Thomann N.,

RA Mauceli E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,  
RA Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,  
RA Daailva C., Salanoubat M., Levy M., Boudet N., Castellano S.,  
RA Anthouard V., Jubin C., Castelli V., Katinka M., Vacherie B.,  
RA Biemont C., Skalli Z., Cattolico L., Poulain J., De Berardinis V.,  
RA Cruaud C., Duprat S., Brottier P., Coutanceau J.P., Gouzy J.,  
RA Parra G., Lardier G., Chappelle C., McKernan K.J., McEwan P., Bosak S.,  
RA Kellis M., Wolff J.N., Guigo R., Zody M.C., Mesirov J.,  
RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,  
RA Laudet V., Schachter V., Quetier F., Saurin W., Scarpelli C.,  
RA Winkler P., Lander E.S., Weissenbach J., Roest Crollius H.,  
RT "Genome duplication in the teleost fish Tetraodon nigroviridis reveals  
RT the early vertebrate proto-karyotype";  
RL Nature 431:946-957(2004).  
RN [2]  
RP NUCLEOTIDE SEQUENCE.  
RG Genoscope; Whitehead Institute Centre for Genome Research;  
RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.  
CC -1- CAUTION: The sequence shown here is derived from an  
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is  
CC preliminary data.  
DR EMBL; CAABE01014506; CAF96695.1; -, Genomic DNA.  
SQ SEQUENCE 281 AA; 30111 MW; 7809ACCF514A0325 CRC64;  
  
Query Match 29.6%; Score 422.5; DB 2; Length 281;  
Best Local Similarity 46.5%; Pred. No. 6.2e-24;  
Matches 93; Conservative 33; Mismatches 53; Indels 21; Gaps 8;  
  
QY 41 TETTPSPNDTNG-----HPEYIAVALVPFIMGLFGVLI CHLLKCKCYRCTTE--- 91  
DB 5 TAVSQHNATDGKNGGAGDQTPNYVAVFLVFPVFLGLLGVVICHVLRKRGYRCTTBPQD 64  
  
QY 92 -ABQDIEEEKVEKIELNSVNE-NSDTVGQIVHYIMKNEANADVLKAMVADNLYDPSPV 150  
DB 65 GGREANEKDEBENG-EDADDSDHDTLQIVRCIMSEANSALKAMVHENSVDSDGPP 123  
  
QY 151 TPSTPGSPVSPGLSPGSPGTPG--KIVCGHLLHTVGVVVERDVCHRCRHKRWHP 207  
DB 124 TP-----SPPTMT--PVSPDAPPGAAGHTCS-HLHTVGGTGLKNTCTRCGSKKWLRRPSP 176  
  
QY 208 KSRESRPRQGEVTVLSVGR 227  
DB 177 RKAEQRRRSAGVTVLAAGR 196  
  
RESULT 10  
TR19L MACFA STANDARD; PRT; 430 AA.  
AC Q4SRN7 TETNG PRELIMINARY; PRT; 430 AA.  
DT 28-FEB-2003 (Rel. 41, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 10-MAY-2005 (Rel. 47, Last annotation update)  
DE Tumor necrosis factor receptor superfamily member 19L precursor  
DE (Receptor expressed in lymphoid tissues).  
GN Name=TNFRSF19L; Synonyms=REL; ORFNames=QCE-10051;  
OS Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
OC Cercopithecoidea; Cercopithecinae; Macaca.  
OX NCBI\_TaxID=9541;  
RN [1]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
RC TISSUE=Brain cortex;  
RX MEDLINE=21458551; PubMed=11574149; DOI=10.1016/S0378-1119(01)00665-5;  
RA Osada N., Hida M., Kusuda J., Tanuma R., Iseki K., Hirata M.,  
RA Suto Y., Hirai M., Terao K., Suzuki Y., Sugano S., Hashimoto K.,  
RT "Assignment of 118 novel cDNAs of cynomolgus monkey brain to human  
RT chromosomes";  
RL Gene 275:31-37(2001).  
RN [2]  
RP ERRATUM.  
RA Osada N., Hida M., Kusuda J., Tanuma R., Iseki K., Hirata M., Suto Y.,  
RA Hirai M., Terao K., Suzuki Y., Sugano S., Hashimoto K., Kusuda J.,

Gene 278:267-267(2001).  
CC -|- FUNCTION: Mediates activation of NF-kappa-B (By similarity). May  
CC play a role in T-cell activation.  
CC -|- SUBUNIT: Associates with TRAF1 (By similarity).  
CC -|- SUBCELLULAR LOCATION: Type I membrane protein (Probable).  
CC -|- SIMILARITY: Contains 1 TNFR-Cys repeat.  
CC  
CC This Swiss-Prot entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use as long as its content is in no way modified and this statement is not  
CC removed.  
CC  
CC EMBL: AB046039; BAB01621.1; -; mRNA.  
DR HSP3; Q92956; IJMA.  
DR InterPro; IPR001368; TNFR\_C6.  
DR SMART; SM00208; TNFR; 1.  
DR PROSITE; PS00652; TNFR\_NGFR\_1; FALSE NEG.  
DR PROSITE; PS00650; TNFR\_NGFR\_2; FALSE NEG.  
KW Glycoprotein; Receptor; Signal; Transmembrane.  
FT SIGNAL 1 26 By similarity.  
FT CHAIN 27 430 Tumor necrosis factor receptor  
FT superfamily member 19L.  
FT TOPO\_DOM 27 162 Extracellular (Potential).  
FT TRANSMEM 163 183 Potential.  
FT TOPO\_DOM 184 430 Cytoplasmic (Potential).  
FT REPEAT 50 90 TNFR-Cys.  
FT CARBOHYD 149 149 N-linked (GlcNAc...) (Potential).  
FT DISULFID 51 65 By similarity.  
FT DISULFID 71 90 By similarity.  
SQ SEQUENCE 430 AA; 45851 MW; BA8DE92593E1E859 CRC64;  
  
Query Match 21.78; Score 309; DB 1; Length 430;  
Best Local Similarity 31.08; Pred. No. 4.2e-15;  
Matches 84; Conservative 37; Mismatches 68; Indels 82; Gaps 12;  
  
QY 44 TPSPNDTNGHPD-----YIAVALVPVFFIMGLFGLVILCHLKKGYRCTTAE----- 93  
Db 144 TRPGNGTRAGPEETAQAQVAIVPVFCMLGGLLVNLLKRYHCTAHEVCGP 203  
QY 94 -----QDIEEKVEKIELNDVNSVNSDVTGQIVHYIMKNEANADVLKAMVAD 140  
Db 204 GGGSGGINPAYRTEDV-----NEDTIGLVRLITKKNAAALEELKE 247  
QY 141 NSLYDESPYTPSPGPPSPGLSPGCTPGKVC--GHLLHTVGV--VERDVCHRCR 196  
Db 248 ---YHSQLVQTS---HRPVSKLPPAPPNPV--HICPHRHLLHFTVQGLASLSPGCCSRCS 299  
QY 197 HKRWHTF-----KPTNKSRE--SRPRRQGEVTLVSGRFRVTKVHKS 237  
Db 300 QKWPPEVLLSPFAVAATTSAPSFLPNTRVPKAKAGKAGQGEITILSVGRFRVARI---- 355  
QY 238 NQKERSLMSVSGAETVN-----GEVPATP 262  
Db 356 --PEQRTGSMVSEVKTTTEAGPSAGDLPDSP 364  
  
RESULT 11  
TR19L HUMAN  
ID TR19L HUMAN STANDARD; Q96JUL; Q9BUK7; PRT; 430 AA.  
AC Q96JUL; Q96JUL; Q9BUK7;  
DT 28-FEB-2003 (Rel. 41, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 13-SEP-2005 (Rel. 48, Last annotation update)  
DE Tumor necrosis factor receptor superfamily member 19L precursor  
DE (Receptor expressed in lymphoid tissues).  
GN Name=TNFRSF19L; Synonyms=REL1;  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;  
OC Homo.  
OX NCBI\_TaxID=9606;  
RN [1]

RP NUCLEOTIDE SEQUENCE, PROTEIN SEQUENCE OF N-TERMINUS, AND INTERACTION  
RP WITH TRAF1.  
RC TISSUE=Lymphoma;  
RX MEDLINE=21213541; PubMed=11313261; DOI=10.1182/blood.V97.9.2702;  
RA Sica G.L., Zhu G., Tamada K., Liu D., Ni J., Chen L.;  
RT "REL1, a new member of the tumor necrosis factor receptor superfamily,  
RT is selectively expressed in hematopoietic tissues and activates  
RT transcription factor NF-kappaB.";  
RL Blood 97:2702-2707(2001).  
RN [2]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
RC TISSUE=Retinoblastoma;  
RX PubMed=14702039; DOI=10.1038/ng1285;  
RA Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R.,  
RA Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H.,  
RA Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S.,  
RA Yamamoto J.-I., Saito K., Kawai Y., Isono Y., Nakamura Y.,  
RA Nagahori K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M.,  
RA Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H.,  
RA Omura Y., Abe K., Kamihara K., Kanda K., Yokoi T., Furuya T., Kikkawa E.,  
RA Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K.,  
RA Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoaka S., Chiba Y.,  
RA Ihida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T.,  
RA Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O.,  
RA Nomura Y., Togiya S., Konai F., Hara R., Takeuchi K., Arita M.,  
RA Inose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S.,  
RA Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S.,  
RA Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O.,  
RA Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H.,  
RA Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B.,  
RA Yamagaki M., Watanabe K., Kumagai A., Itakura S., Fukushima Y.,  
RA Fujimori Y., Koniyama M., Tashiro H., Tanigami A., Fujiiwara T.,  
RA Ono T., Yamada K., Fujii Y., Ozaki K., Hirao H., Ohmori Y.,  
RA Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,  
RA Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T.,  
RA Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M.,  
RA Togaishi T., Oyama M., Hata H., Watanabe M., Komatsu T.,  
RA Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K.,  
RA Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R.,  
RA Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.;  
RT "Complete sequencing and characterization of 21,243 full-length human  
RT cDNAs.";  
RL Nat. Genet. 36:40-45(2004).  
RN [3]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA], AND VARIANT VAL-332.  
RC TISSUE=Blood, Colon, and Eye;  
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heide F.,  
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,  
RA Boeak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.C., Grimwood J., Schmutz J., Skalka U., Smallos D.E.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
RN [4]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] OF 121-430.  
RC TISSUE=Spleen;  
RA Jikuya H., Takano J., Nomura N., Kikuno R., Nagase T., Ohara O.;  
RT "The nucleotide sequence of a long cDNA clone isolated from human





```
DR HSP; P19438; 1EXT.
DR Ensembl; ENSMUSG0000008318; Mus musculus.
DR MGI; MGI:2443373; Tnfref19l.
DR GO; GO:0016021; C: integral to membrane; TAS.
DR InterPro; IPR001368; TNFR_c6.
DR SMART; SM00208; TNFR; 1.
DR PROSITE; PS00652; TNFR_NGFR_1; FALSE NEG.
DR PROSITE; PS00650; TNFR_NGFR_2; FALSE NEG.
KW Glycoprotein; Receptor; Signal; Transmembrane.
FT SIGNAL 1 31
FT CHAIN 32 436
FT   Tumor necrosis factor receptor
FT   superfamily member 19L.
FT   Extracellular (Potential).
FT   Potential.
FT   Cytoplasmic (Potential).
FT   TNFR-Cys.
FT CARBOHYD 156 156 N-linked (GlcNAc...) (Potential).
FT DISULFID 58 72 By similarity.
FT DISULFID 78 97 By similarity.
FT CONFLICT 39 39 G > C (in Ref. 1; BAC40459).
SQ SEQUENCE 436 AA; 46472 MW; 1F96C5E021945DF9 CRC64;

Query Match 20.7%; Score 295.5; DB 1; Length 436;
Best Local Similarity 30.6%; Pred. No. 4.5e-14;
Matches 82; Conservative 36; Mismatches 89; Indels 61; Gaps 12;

QY 31 NGSRLHSRTETTPSPNDTNGHP-----YIAYALVPVFIMGLFGVLICHLLKKKG 85
DB 148 NGEPR-----QFNGTRAGGPETAQAQVAIVFVFLGMLGLILVCLNLLKRG 197
QY 86 YRCTTAEQDIEB-----EKVEKIELNDNVNENSDTGVQIVHYIMKNEANA-----DVLKAM 137
DB 198 YHCTAQKEVPSGGGSGINPAYREDANE--DTIGVRLITEKKNAAALEELKEY 255
QY 138 VADNSLYDPSPVTPSPGSPVSPGLSPGTPGKHVC--GHHLHTVGGV--VERDVCH 193
DB 256 HSKQLVQTSRHPVRLLPASPSI-----PHICPHHLHTVQGLASLSGPCS 303
QY 194 RCHKEWHFI-----KPT-----NKSR-----ESRPRROGEVTVLSVGRFRTKVE 234
DB 304 RCSQK-WPEVLLSFEAAAAATPAPTLLPTASRAPKASAKPGROGEITILSVGRFRVARIP 362
QY 235 HKSQKERRSLMSVSGAETVNGVGPATP 262
DB 363 EQRTSLLSEVKITTEAGPSEGDLDPSP 390

RESULT 13
Q8CFT0_MOUSE PRELIMINARY; PRT; 294 AA.
AC Q8CFT0_MOUSE
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE RIKEN cDNA 4631403P03.
GN Names=4631403P03Rik;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muroidae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C57BL/6J; TISSUE=Cortex;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L.H., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko M., Soares M.B., Bonaldi M.F., Cabavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Vallalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Faney J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalak U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Eye;
RA Strausberg R.;
RL Submitted (OCT-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC038500; AAH38500.1; -; mRNA.
DR Ensembl; ENSMUSG00000044024; Mus musculus.
DR MGI; MGI:1918044; 4631403P03Rik.
SQ SEQUENCE 294 AA; 31456 MW; 8A5DEDE20243EAF6 CRC64;

Query Match 20.3%; Score 289; DB 2; Length 294;
Best Local Similarity 38.4%; Pred. No. 9.1e-14;
Matches 86; Conservative 28; Mismatches 82; Indels 28; Gaps 9;

QY 55 HPYIAYALVPVFIMGLFGVLICHLLKKGYRCTTAEQDIEEKVEKIELNDNVNENS 114
DB 13 HGLYMLFLVLVFLGLVGMFCHLVKKGYRCRTSRGSEPDQAQLQPPE-DDDVNE-- 69
QY 115 DTGGQIVHYIMKNEANADVLMKAVNDSLYDPSPVTPSPGSPVSPGLSPGTPGKH 174
DB 70 DTVERIVRLITQNEANAEALKEMLGDS---EGEGTVQLSS-----VDATSSLOQGAESH 121
QY 175 VCGHHLHTVGGVVERDVCHRCRWHFIKP-TNKSRESRPRQGEVTVLSVGRFRTKV 233
DB 122 -----HTVHLSAACPCHCSRKRPLVROGRSKEGSRP-RPGETTVFSVGRFRTVTHI 174
QY 234 -----EHKSQKERRSLMSVSGAETVNGVGPATPVKERSGT 270
DB 175 EKRYGLHHRDGSPTDRSMGSGGQEP--GGSQAAGGQPRGTGT 216

RESULT 14
Q8BRJ3_MOUSE PRELIMINARY; PRT; 303 AA.
AC Q8BRJ3_MOUSE
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mus musculus 10 days neonate cortex cDNA, RIKEN full-length enriched
DE library, clone:A830089I08 product:hypothetical protein, full insert
DE sequence.
GN Names=4631403P03Rik;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muroidae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C57BL/6J; TISSUE=Cortex;
RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning."
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C57BL/6J; TISSUE=Cortex;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
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RA Saito T., Okazaki Y., Gotojori T., Bono H., Kasukawa T., Saito R.,  
RA Kadoya K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,  
RA Fleichmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,  
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,  
RA Schriml L.M., Staubli P., Suzuki R., Tomita M., Wagner L., Washio T.,  
RA Sakai K., Okido T., Furuno M., Bono H., Baldarelli R., Barsh G.,  
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,  
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,  
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,  
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,  
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,  
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,  
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,  
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohtsuki S.,  
RA Hayashizaki Y.;  
RT "Functional annotation of a full-length mouse cDNA collection.";  
RL Nature 409:685-690(2001).  
RN [3]  
RP NUCLEOTIDE SEQUENCE.  
RC STRAIN=C57BL/6J; TISSUE=Cortex;  
RA The RIKEN Consortium,  
RA The RIKEN Genome Exploration Research Group Phase I & II Team;  
RT "Analysis of the mouse transcriptome based on functional annotation of  
RT 60,770 full-length cDNAs.";  
RL Nature 420:563-573 (2002).  
RN [4]  
RP NUCLEOTIDE SEQUENCE.  
RC STRAIN=C57BL/6J; TISSUE=Cortex;  
RX MEDLINE=20499374; PubMed=1042159; DOI=10.1101/gr.145100;  
RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,  
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;  
RT "Normalization and subtraction of cap-trapper-selected cDNAs to  
RT prepare full-length cDNA libraries for rapid discovery of new genes.";  
RL Genome Res. 10:1617-1630(2000).  
RN [5]  
RP NUCLEOTIDE SEQUENCE.  
RC STRAIN=C57BL/6J; TISSUE=Cortex;  
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;  
RA Shibata K., Itoh M., Aizawa K., Nagao S., Sasaki N., Carninci P.,  
RA Konno H., Akiyama J., Nishi K., Kitaura T., Tashiro H., Itoh M.,  
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,  
RA Yamamoto K., Matsunoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,  
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,  
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,  
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;  
RT "RIKEN integrated sequence analysis (RISA) system-384-format  
RT sequencing pipeline with 384 multicapillary sequencer.";  
RL Genome Res. 10:1757-1771(2000).  
RN [6]  
RP NUCLEOTIDE SEQUENCE.  
RC STRAIN=C57BL/6J; TISSUE=Cortex;  
RA Adachi J., Aizawa K., Akinura T., Arakawa T., Bono H., Carninci P.,  
RA Fukuda S., Furuno M., Hanganaki T., Hara A., Hashizume W.,  
RA Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,  
RA Horii P., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,  
RA Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,  
RA Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,  
RA Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,  
RA Saito K., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,  
RA Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,  
RA Tagawa A., Takahashi F., Takaku-Akahira S., Takeda Y., Tanaka T.,  
RA Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.,  
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AK044097; BAC31774.1; -, mRNA.  
DR Ensembl; ENSMUSG0000044024; Mus musculus.  
DR MGI; MGI:1918044; 4631403P3Rik.  
KW Hypothetical protein.  
SQ SEQUENCE 303 AA; 32326 MW; 06287A05AA64793B CRC64;

Query Match 20.3%; Score 289; DB 2; Length 303;  
Best Local Similarity 38.4%; Pred. No. 9.4e-14;  
Matches 86; Conservative 28; Mismatches 82; Indels 28; Gaps 9;

QY 55 HPYIAYALVPVFPIMGLFGVLCHLLKKGYRCCTTEAQDIEEEKVKIELNDVSNENS 114  
DB 13 HGLYMLFLVLVLPFLMGLVGMICHLVKKGYRCRTSRGSEPDQAQLQPE--DDVNE-- 69  
QY 115 DTVGQVLVHYIMKNEANADVLKAMVADNSLVDPSPVTPSTPGSPVSPGLSPGTPGKH 174  
DB 70 DTVERIVRCLIQNEANAALKEMIGDS---EGSGTVQLSS-----VDATSSLDGAPSHH 121  
QY 175 VCGHLLHTYGGVVVERDVCHRCRKHWHF1KP-TNKSRESRPRQGEVTVLSVGRFRVTKV 233  
DB 122 -----HTVHLGSAAPCIHCSRKRPLVRQGRSKGSRP-RGETTVTSVGRFRVTHI 174  
QY 234 -----EHSKSKQKRRSLMSVGAETVNGVEVPATPKVRERSGT 270  
DB 175 EKRYLGLHHRDGSPTDRSMGSGGQBP--GGQAAGGGQPRGTG 216  
  
RESULT 15  
Q6DIW4\_XENTR  
ID Q6DIW4\_XENTR PRELIMINARY; PRT; 325 AA.  
AC Q6DIW4;  
DT 25-OCT-2004 (T-EMBLrel. 28, Created)  
DT 25-OCT-2004 (T-EMBLrel. 28, Last sequence update)  
DT 25-OCT-2004 (T-EMBLrel. 28, Last annotation update)  
DE MGC89179 protein.  
GN Name=MGC89179;  
OS Xenopus tropicalis (Western clawed frog) (Silurana tropicalis).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae;  
OC Xenopodinae; Xenopus; Silurana.  
OX NCBI\_TaxID=8364;  
RN [1]  
RP NUCLEOTIDE SEQUENCE.  
RC TISSUE=Whole body;  
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Strauber R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Pahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,  
RA Schnurch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
RN [2]  
RP NUCLEOTIDE SEQUENCE.  
RC TISSUE=Whole body;  
RA Klein S., Gerhard D.S.;  
RA Submitted (JUN-2004) to the EMBL/GenBank/DBJ databases.  
DR EMBL; BC075421; AAH75421.1; -, mRNA.  
DR Ensembl; ENSGREG0000002692; Xenopus tropicalis.  
SQ SEQUENCE 325 AA; 36517 MW; 69129BF0CE1B18CB CRC64;  
  
Query Match 20.3%; Score 289; DB 2; Length 325;  
Best Local Similarity 35.0%; Pred. No. 1e-13;  
Matches 82; Conservative 30; Mismatches 62; Indels 60; Gaps 10;

QY 58 YIAYALVPVFPIMGLFGVLCHLLKKGYRCCTT-----EAEQDIEEEKVKIELNDVSV 110  
DB 13 YMLFLVLVFPVGLGLFLCHLVKKGYRCRTFPPELDPKAEGLNEDLENAEELS-- 69  
QY 111 NENSDTVQIVHYIMKNEANADVLKAMVADNSLVDPSPVTP-----STPGSPVSPG 163



GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: February 23, 2006, 12:04:08 ; Search time 40 Seconds  
(without alignments)  
651.869 Million cell updates/sec

Title: US-10-620-562-2

Perfect score: 1426

Sequence: 1 MAPRALPGSAVLAAAVFG.....ETVNGEVPATPVKRSRGTE 271

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR 80:\*  
1: PIR1:\*  
2: PIR2:\*  
3: PIR3:\*  
4: PIR4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	105.5	7.4	1083	2 JC2300	cell surface glyco
2	104.5	7.3	1679	2 T30271	surface protein -
3	98.5	6.9	3140	2 S47508	genome polyprotein
4	97.5	6.8	1541	2 AG2474	heterocyst glycoli
5	97	6.8	514	2 A31643	cell adhesion 80K
6	96.5	6.8	345	2 S55377	ur-PAB protein prec
7	96.5	6.8	942	2 JC7316	testicular zinc fi
8	95.5	6.7	634	2 T00359	hypothetical prote
9	94	6.6	682	2 A42121	transcription fact
10	94	6.6	1062	2 T46444	hypothetical prote
11	93.5	6.6	349	2 T25236	hypothetical prote
12	93.5	6.6	452	2 S47633	RXR protein - Afri
13	93.5	6.6	3084	1 MMMSA	laminin alpha-1 ch
14	92.5	6.5	3141	1 GNVSPD	genome polyprotein
15	92	6.5	120	2 T29774	hypothetical prote
16	91.5	6.4	513	2 AB2504	hypothetical prote
17	91.5	6.4	707	2 A46691	E-box-binding prot
18	91.5	6.4	843	2 S33442	EF protein - Strep
19	91.5	6.4	1199	2 T13946	probable adaptor-r
20	91.5	6.4	1822	2 S33441	EF protein - Strep
21	91	6.4	514	2 A44100	cell adhesion mole
22	91	6.4	706	2 S19958	basic helix-loop-h
23	89.5	6.3	467	2 A43781	retinoid-X-recepto
24	89.5	6.3	612	2 T02414	probable protein k
25	89.5	6.3	2061	2 T13751	transcription fact
26	89	6.2	512	2 T16157	hypothetical prote
27	89	6.2	605	2 S48940	hypothetical prote
28	89	6.2	2364	2 A56577	microtubule-associ
29	89	6.2	3125	1 GNVSPD	genome polyprotein

30	88.5	6.2	563	2 T49681	MCX1 related prote
31	88	6.2	355	2 H90429	membrane conserved
32	88	6.2	441	2 I50515	retinoid X recepto
33	88	6.2	909	2 AG3314	exonuclease ABC c
34	88	6.2	3869	2 A48205	All-1 protein +STE
35	88	6.2	5107	2 T29144	partial CDS - Caen
36	87.5	6.1	940	2 S19702	fibronectin-bindin
37	87.5	6.1	1420	2 B57062	SRB9 protein - yea
38	87	6.1	890	2 E81576	translation initia
39	87	6.1	890	2 E86530	initiation factor-
40	87	6.1	890	2 F72093	translation initia
41	86.5	6.1	232	2 B96803	hypothetical prote
42	86.5	6.1	879	2 S23006	shed acute-phase a
43	86.5	6.1	916	2 I48921	DNA ligase (ATP) (
44	86	6.0	553	2 B55514	dihydrolipoamide S
45	86	6.0	759	2 T16368	hypothetical prote

ALIGNMENTS

RESULT 1

JC2300

cell surface glycoprotein MSG100 - Pneumocystis carinii

C:Species: Pneumocystis carinii

C>Date: 06-Jan-1995 #sequence\_revision 06-Jan-1995 #text\_change 09-Jul-2004

C:Accession: JC2300

R:Wada, M.; Nakamura, Y.

DNA Res. 1, 163-168, 1994

A:Title: MSG gene cluster encoding major cell surface glycoproteins of rat Pneumocystis

A:Reference number: JC2299; MUID:96051989; PMID:8535973

A:Accession: JC2300

A:Molecule type: DNA

A:Residues: 1-1083 <WAD>

A:Cross-references: UNIPROT:Q12075; UNIPARC:UPI0000006BAE6; GB:D31909; GB:D17441; NID:955

C:Genetics:

A:Gene: MSG100

C:Superfamily: Pneumocystis carinii major surface glycoprotein MSG100

C:Keywords: glycoprotein

Query Match 7.4%; Score 105.5; DB 2; Length 1083;

Best Local Similarity 25.3%; Pred. No. 2.5;

Matches 37; Conservative 22; Mismatches 50; Indels 37; Gaps 5;

Qy 71 GLFGVLICHLKKKGYRCTT-----EARDIEEEKVEKIELNDSVNSSTVQIVHYI 124

Db 734 GTKGTVCKELVKKKKKPTLKDGLNKAOKDELTKKXEYDELKKAABESTEKALLLSKS 793

Qy 125 MK-----NEANADVLKAMVADNSLYDPESPVTPSTPGSP-----PVSPG-----163

Db 794 GKVAMPQSDNSGSGPVPAAGSGSGSPSPAPVPPPGSPQNGTPTGTPGGTGASGGTPG 853

Qy 164 -PLSPGGTTPGKHVCGHLLHTVGGVVE 188

Db 854 TPCTPGGAPG-----TPGGMMK 870

RESULT 2

T30271

surface protein - fluke (Schistosoma mansoni)

C:Species: Schistosoma mansoni

C>Date: 02-Sep-2000 #sequence\_revision 02-Sep-2000 #text\_change 09-Jul-2004

C:Accession: T30271

R:Hall, T.M.; Joseph, G.T.; Strand, M.

Exp. Parasitol. 80, 242-249, 1995

A:Title: Schistosoma mansoni: molecular cloning and sequencing of the 200-kDa chemothera

A:Reference number: 220800; MUID:95203407; PMID:7534724

A:Accession: T30271

A>Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-1679 <HAL>

A:Cross-references: UNIPROT:Q26607; UNIPARC:UPI00000074F18; EMBL:M99494; NID:G501208; PID

Query Match		7.3%;	Score 104.5;	DB 2;	Length 1679;
Best Local Similarity		22.8%;	Pred. No. 5.2;		
Matches		51;	Conservative	31;	Mismatches 73; Indels 69; Gaps 10;
QY	79	HLKKKGYRCTTE-----	AEQDIEBEKVEKIELNDS--VNENSDRV--	117	
		:	: :		
Db	634	HLDDIRAYHOLDENNVDNSQLKILTQRS	GCSPSESEDEVVASVOLKDGQCSTDNDIITC	693	
QY	118	-----GQIVHYIMKNEANADVILKAMV	ADNSLYDPESPVTSTPGSPVSPGLSPGCTPG	172	
		: :	: :		
Db	694	TRIHGQIIQFKLNNPSTSDYKLYMKS	DGVEDN-----VSTSSIDLVTSGSL--GETVK	747	
QY	173	KHVCG-----HH-----	LHTVGGVVERDVCHRCRKHWHFIKP-----	207	
		: :	: :		
Db	748	EDIKAGLSLTVGEIHNNHETQETEL	DVAVHIAKSVISDNIACRPTYLLLEFIEPN	807	
QY	208	KSRESR-----PRQGEVTV---LSVGR	FRVTVKVEHKSQ 239		
		:	: :		
Db	808	KSRVSSKQTMFRINKLPNSQKEINL	KMQLSIGSVDPDTQSEATTNQ 851		
RESULT 3					
S47508					
genome polyprotein - plum pox virus (isolate PVV-SC)					
N;Contains: coat protein; protein 6K1; protein 6K2; protein CI; protein HCpro; protein N					
C;Species: plum pox virus, PPV					
A;Variety: isolate PVV-SC					
C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004					
A;Accession: S47508					
R;Maiss, E.; Deborre, G.; Jellmann, W.; Casper, R.					
Submitted to the EMBL Data Library, August 1994					
A;Description: Complete nucleotide sequence of a plum pox potyvirus isolate (PVV-SC) der					
A;Reference number: S47508					
A;Accession: S47508					
A;Molecule type: genomic RNA					
A;Residues: 1-3140 <NAI>					
A;Cross-references: UNIPROT:Q84925; UNIPARC:UPI00000F3F01; EMBL:X81083; NID:G531731; PID					
A;Experimental source: isolate PVV-SC					
C;Superfamily: tobacco etch virus genome polyprotein					
F;1-308/Product: protein P1 #status predicted <P1>					
F;309-766/Product: protein HCpro #status predicted <HCp>					
F;767-1116/Product: protein P3 #status predicted <P3>					
F;1117-1168/Product: protein 6K1 #status predicted <6K1>					
F;1169-1803/Product: protein CI #status predicted <CI>					
F;1253-1260/Region: nucleotide-binding motif A (P-loop)					
F;1338-1343/Region: nucleotide-binding motif B					
F;1342-1345/Region: DEXH motif					
F;1804-1856/Product: protein 6K2 #status predicted <6K2>					
F;1957-2292/Product: protein N1a #status predicted <N1a>					
F;1957-2049/Product: VPg protein #status predicted <VPg>					
F;2293-2810/Product: protein N1b #status predicted <N1b>					
F;2811-3140/Product: coat protein #status predicted <COA>					
F;1919/Binding site: phosphoryl-RNA (Tyr) (covalent) #status predicted					
Query Match		6.9%;	Score 98.5;	DB 2;	Length 3140;
Best Local Similarity		24.7%;	Pred. No. 35;		
Matches		45;	Conservative	27;	Mismatches 85; Indels 25; Gaps 6;
QY	83	KKGYRCTTEAQDIEEB-KVEKIELNDSVN	SDTVGQIVHYIMKNEANA---DVLKAMV	138	
		:	: :		
Db	2774	KLYTDTAESEIEIERILYKAFYDDIND	D-GESNVVVHQVAEREDEEVNACKSNVVTAPA	2832	
QY	139	ADNSLYDP-----ESPVTSTPGSPVSP	GPLSPGPGTKHVCGHHLHTVGGVVERDVCH	193	
		: :	: :		
Db	2833	ATSPILQPLVIOQAPRTTASMLNPIFT	PATTQATKPVQSQVSPQLQTFGTGYNEDA--	2890	
QY	194	RCRKHWHFIKPTNKSRESRPRRG	EVTVLSVGRFRVTVKVEHKSQKERRSLMSVSAET	253	
		: :	: :		
Db	2891	-----SPSNSNALVNTSRDRD	VDA GSTGTFTVPLKAMTMS-----KLSLPKVKGA	2937	
QY	254	VN 255	:		

Db	2938	MN 2939			
RESULT 4					
AG2474					
heterocyst glycolipid synthase [imported] - Nostoc sp. (strain PCC 7120)					
C;Species: Nostoc sp. strain PCC 7120					
A;Note: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120					
C;Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change 09-Jul-2004					
C;Accession: AG2474					
R;Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Watanabe, A.; Iriguchi					
Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata, S.					
DNA Res. 8, 205-213, 2001					
A;Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium Anaba					
A;Reference number: AB1807; MUID:21595285; PMID:11759840					
A;Accession: AG2474					
A;Status: preliminary					
A;Molecule type: DNA					
A;Residues: 1-1541 <KUR>					
A;Cross-references: UNIPROT:Q8VLE7; UNIPARC:UPI00000CESE2; GB:BA000019; PIDN:BA077050.1;					
A;Experimental source: strain PCC 7120					
C;Genetics:					
A;Gene: hglE					
Query Match		6.8%;	Score 97.5;	DB 2;	Length 1541;
Best Local Similarity		21.3%;	Pred. No. 17;		
Matches		45;	Conservative	30;	Mismatches 73; Indels 63; Gaps 8;
QY	1	MAPRA--LPGSAVLA--AAVFGG-----	AVSSPLVAPDNGSSRTLHSRTTTPSPSNDTG	52	
		:     :	: :		
Db	1248	LAPTAWQIQSEPVVAATASVSVSTIEP	EVIEADVAAP-----VNVQVFTSAP-----	1296	
QY	53	NGHPEVIAYALVPVFFIMGLFGLVLI	CHLLKKGY-----RCITTEASQDIEEKVEKIELN	107	
		: :	: :		
Db	1297	-----APVAAPADIVADLDKNLAI	ISDKTGYPEVMELEMDMEADLGIDSIRVEIL	1349	
QY	108	DSVNE-----NSDTVGQIVHYIMKNEA	-----NADVLKAMVAD	140	
		: :	: :		
Db	1350	GGLEQVYVPLPKNLBELAKRTIGQIV	LYLKANTAISQSVGIAIQQAQAAPVAVT	1409	
QY	141	NSLYDPESPVTSTPGSPVSPGLSPG	GTP 171		
		:     :	: :		
Db	1410	ASIAAPEPVVAPT-----PIAPEP	VAIPATP 1435		
RESULT 5					
A31643					
cell adhesion 80K glycoprotein precursor - slime mold (Dictyostelium discoideum)					
N;Alternate names: cell adhesion molecule csa; cell surface glycoprotein, 80K					
C;Species: Dictyostelium discoideum					
A;Variety: strain AX-2					
C;Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 09-Jul-2004					
C;Accession: S22066; A31643; A26310; A23951; A33463; S01473					
R;Desbarats, L.; Lam, T.Y.; Wong, L.M.; Siu, C.H.					
submitted to the EMBL Data Library, June 1992					
A;Description: Identification of a unique camp-responsive element in the gene encoding t					
A;Reference number: S22066					
A;Accession: S22066					
A;Status: preliminary					
A;Molecule type: DNA					
A;Residues: 1-514 <DES>					
A;Cross-references: UNIPROT:P08796; UNIPARC:UPI00001284F3; EMBL:X66483; NID:G7289; PIDN:G					
R;Kamboj, R.K.; Wong, L.M.; Lam, T.Y.; Siu, C.H.					
J. Cell Biol. 107, 1835-1843, 1988					
A;Title: Mapping of a cell-binding domain in the cell adhesion molecule gp80 of Dictyoste					
A;Reference number: A31643; MUID:89034443; PMID:3182938					
A;Accession: A31643					
A;Molecule type: mRNA					
A;Residues: 1-514 <RAM>					
A;Cross-references: UNIPARC:UPI00001284F3; GB:M36545; NID:g167803; PIDN:AAA33212.1; PID:G					
R;Noegel, A.; Gerisch, G.; Stadler, J.; Westphal, M.					
EMBO J. 5, 1473-1476, 1986					
A;Title: Complete sequence and transcript regulation of a cell adhesion protein from ag					

A;Reference number: A26310  
A;Accession: A26310  
A;Molecule type: mRNA  
A;Residues: 1-215,'G',217-514 <NOE>  
A;Cross-references: UNIPARC:UPI000016B99B; EMBL:X04004; NID:57246; PIDN:CAA27634.1; PID:  
R;Wong, L.M.; Siu, C.H.  
Proc. Natl. Acad. Sci. U.S.A. 83, 4248-4252, 1986  
A;Title: Cloning of cDNA for the contact site A glycoprotein of Dictyostelium discoideum  
A;Reference number: A23951  
A;Accession: A23951  
A;Molecule type: mRNA  
A;Residues: 20-49 <WON>  
A;Cross-references: UNIPARC:UPI0000000031; GB:M13546; NID:g167699; PIDN:AAA33181.1; PID:  
R;Kamboj, R.K.; Gariepy, J.; Siu, C.H.  
Cell 59, 615-625, 1989  
A;Title: Identification of an octapeptide involved in homophilic interaction of the cell  
A;Reference number: A33463; MUID:90058644; PMID:2582489  
A;Accession: A33463  
A;Molecule type: protein  
A;Residues: 132-139 <KA2>  
A;Cross-references: UNIPARC:UPI000017B17A  
R;Stadler, J.; Bordier, C.; Lottspeich, F.; Henschen, A.; Gerisch, G.  
Hoppe-Seyler's Z. Physiol. Chem. 363, 771-776, 1982  
A;Title: Improved purification and N-terminal amino acid sequence determination of the c  
A;Reference number: S01473; MUID:83005404; PMID:7118072  
A;Accession: S01473  
A;Molecule type: protein  
A;Residues: 20-37,'X',39-41,'X',43-46 <STA>  
A;Cross-references: UNIPARC:UPI000017B17B  
R;Stadler, J.; Kennan, T.W.; Bauer, G.; Gerisch, G.  
EMBO J. 8, 371-377, 1989  
A;Title: The contact site A glycoprotein of Dictyostelium discoideum carries a phospholip  
A;Reference number: A56857; MUID:89251561; PMID:2721485  
A;Contents: annotation; detection of glycosphingolipidinositol anchor  
A;Note: no phosphoserine was detected but phosphoinositol and ceramide were  
A;Note: the N-linked carbohydrates are sulfated type I oligosaccharides  
C;Comment: This protein is involved in the formation of intercellular contacts upon aggr  
A;Gene: csa  
C;Keywords: blocked carboxyl end; cell adhesion; glycoprotein; lipoprotein; membrane pro  
F;1-19/Domain: signal sequence #status predicted <SIG>  
F;20-514/Product: cell adhesion 80K glycoprotein #status predicted <MAT>  
F;132-139/Region: cell adhesion #status predicted  
F;460-479/Region: 10-residue repeats  
F;493-514/Domain: carboxyl-terminal propeptide #status predicted <CTP>  
F;128,137,207,294,399/Binding site: carbohydrate (Asn) (covalent) #status predicted  
F;492/Modified site: GSI-anchor ethanolamine amidated carboxyl end (Ser) (in mature form

Query Match 6.8%; Score 97; DB 2; Length 514;  
Best Local Similarity 19.6%; Pred. No. 4.8;  
Matches 57; Conservative 50; Mismatches 116; Indels 68; Gaps 13;  
Qy 16 VFVCGAVSSPLVAPDNGSSRTLHRTTTPSPN-----DTGNGHPYIAYAL 63  
Db 50 VTIGGQTCDPVIVANTASLOQCSF-AQLAPGNSFDVIVKGVSPSTGGNGLFKYTPPTL 108  
Qy 64 VPVFFIMGLFG-VLIChLLKKKGYRCTTEAQDIEEKVEIKLDSVNE-----NSDTV 117  
Db 109 STIPPNNGRIGMILVDGFSNISGY-----KLVNDSINAMLSVTADSV 152  
Qy 118 GQIVHYIMKNEANADVL-----KAMVADNSLYDPSPVTPSPGSPVSPGLSP 167  
Db 153 SPTIYFLVPNTIAGLLNLELIQPFGSTIVTSKVSFSP--TIISITFLAFDLTFTNVTV 210  
Qy 168 GG-----TPGKHVCGHLLHTVGGVVERDVCHRCRKHWHFIKPTWKSRESRPRRQGEVTVL 223  
Db 211 TGRKYFVTASVTMGSHIYT--GLTVQDDGTNC-----HVIPTTRSVMYES-----SNTITAK 259  
Qy 224 SVGRFRVTYKVEHKSNQKE---RRSLMSVSGAETVNGEVPATPVKRSRSGTE 271  
Db 260 ASTGDVMIYLDNQGNQDQIFPTTNPPTITSTKQVNDV---EISTTTNGTD 307

RESULT 6  
S55377  
urPAB protein precursor - Peptostreptococcus magnus  
C;Species: Peptostreptococcus magnus  
C;Date: 15-Jul-1995 #sequence\_revision 01-Sep-1995 #text\_change 09-Jul-2004  
A;Accession: S55377  
R;de Chateau, M.; Bjoerck, L.  
submitted to the EMBL Data Library, April 1995  
A;Description: Protein urPAB.  
A;Reference number: S55377  
A;Accession: S55377  
A;Status: preliminary  
A;Molecule type: DNA  
A;Residues: 1-345 <DEC>  
A;Cross-references: UNIPROT:Q51932; UNIPARC:UPI000000A8E7E; EMBL:Z48975; NID:g854370; PID:  
Query Match 6.8%; Score 96.5; DB 2; Length 345;  
Best Local Similarity 20.3%; Pred. No. 3.2; Mismatches 64; Indels 103; Gaps 7;  
Matches 47; Conservative 17;  
Qy 97 EEEKVEKIELNDSVNSDVTGQIVHYIMKNEANADVLKAMVADNSLYDP-----146  
Db 121 EEEKAKKEAEKVDSDSWYDQSKHPFAVTKEEAEQAQAKAL--ENELLNPGHINNSYKVS 178  
Qy 147 -----ESPVTPTSPGSPVSPGLSP-----167  
Db 179 QKYDGNWEYVLSPLNAETPETPKPKSPDVTNPSTPEVEEKOPVLPSPRLDNHYFMNG 238  
Qy 168 -----GGTPGKHVCGHLLHTVGGVVERDVCHRCRKHWHFIKPTWKSRESRPRRQGEV 220  
Db 239 DSSTSDEGKTPGKEE-----XP-----GKEEKPKE---264  
Qy 221 TVLSVGRFRVTYKVEHKSNQKERSLSMSVGAETVNGEVPATPVKRSRSGTE 271  
Db 265 -----EKPEQKPKKEKPKGKEKPKGKPKAN-PAKPAKEEKEKD 304  
RESULT 7  
JC7316  
testicular zinc finger protein - mouse  
C;Species: Mus musculus (house mouse)  
C;Date: 08-Sep-2000 #sequence\_revision 08-Sep-2000 #text\_change 09-Jul-2004  
A;Accession: JC7316  
R;Inoue, A.; Ishiji, A.; Kasagi, S.; Ishizuka, M.; Hirose, S.; Baba, T.; Hagiwara, H.  
Biochem. Biophys. Res. Commun. 273, 398-403, 2000  
A;Title: The transcript for a novel protein with a zinc finger motif is expressed at spe  
A;Reference number: JC7316  
A;Contents: Testis  
A;Accession: JC7316  
A;Molecule type: mRNA  
A;Residues: 1-942 <INO>  
A;Cross-references: UNIPROT:Q9J01; UNIPARC:UPI00000285D3  
C;Comment: This protein, with a zinc finger motif, functions as a transcriptional regula  
in the initiation of the reduction divisions of meiosis and/or in the maintenance of mei  
C;Genetics:  
A;Gene: tzf  
C;Keywords: meiosis; spermatogenesis; testis; transcription regulation; zinc finger

Query Match 6.8%; Score 96.5; DB 2; Length 942;  
Best Local Similarity 21.4%; Pred. No. 11;  
Matches 75; Conservative 39; Mismatches 134; Indels 103; Gaps 13;  
Qy 5 ALPGSAVLAFAVFGGAVSSPLVAPDNGSSRTLHRTTTPSPS-----NDTNGH 55  
Db 172 SIPGLAGVLTTSBPGYSLQRPPEVPMMPKKSILKKRIEADWKPKSLQLESFSSGASSGEDH 231  
Qy 56 PEYIAYALVPFFIMGLFGVLIChLLKKKGYRCTTEAQDIEEKVEKIE---LNDVNE 112  
Db 232 PLYSEHSPLSLGAIAPF-----TSEIENKG-----TTVEADLKPEQSNLYQWGLREIPKD 283  
Qy 113 NSDTVGQIVHYIMKNEANADVLK-----AMVAD-----140  
Db 284 NSBKFDSEFLGFKERLDLKAEGLEQQTDLNLLPHERASQDGSQGSFRLSMLADPTTTOBKRR 343







Query Match 6.6%; Score 94; DB 2; Length 1062;  
Best Local Similarity 26.0%; Pred. No. 21;  
Matches 45; Conservative 34; Mismatches 68; Indels 26; Gaps 12;

QY 91 EAAQDIEEEKVEKIELND--SVNENSDTVQGVVHYIMKNEANADVLMKAVADNSLY-DPE 147  
DB EEEHEEEEEEEGPEAREMMWQEGEHTV-----TSHSIIHRLPGSDNLYDDPY 257  
QY 148 SP-VTPESTPGSPVSPGLSPGGTTPGKHV-CGH--HLHTV--GGVVERDVCHRCRHKRW 201  
DB 258 QPEITPS-PLQPPAAPAPTSTTSARRAYCRNRDHFATIRTASLVSRQI---QEHEQDS 313  
QY 202 FIKPTNKSRESRRRQGEVTVLSV-GRFRVTVKEHSN-QKERSLSMSVGAE 252  
DB 314 ALR-EQLSGYKRMRRQHQKQLALESLRGEREHSARLQRELEAQRAGFGAE 365

RESULT 11  
T25236  
hypothetical protein T24D1.3 - *Caenorhabditis elegans*  
C;Species: *Caenorhabditis elegans*  
C;Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 09-Jul-2004  
C;Accession: T25236  
R;Cummings, P.  
submitted to the EMBL Data Library, October 1996  
A;Reference number: Z20001  
A;Accession: T25236  
A;Status: preliminary; translated from GB/EMBL/DBJ  
A;Molecule type: DNA  
A;Residues: 1-349 <WIL>  
A;Cross-references: UNIPROT:O02333; UNIPARC:UPI000007ED28; EMBL:Z81131; PIDN:CAB03425.1  
C;Genetics:  
A;Gene: CESP:T24D1.3  
A;Map position: 1  
A;Introns: 29/2; 298/2

Query Match 6.6%; Score 93.5; DB 2; Length 349;  
Best Local Similarity 19.8%; Pred. No. 5.7;  
Matches 41; Conservative 32; Mismatches 67; Indels 67; Gaps 9;

QY 92 AEQDIEEEKVEKIELNDSVNENSDTVQGVVH-----YIMKNEANADVLMKAVADNSLYDPE 147  
DB 21 SEVDLEQQR-RALEMEPEQ-QMNDQAFALITHDHVQHINNNDAN-----QVPA 65  
QY 148 SPVTPSTPGSPVSPGLSPGGTTPGKHVCGHLLHTVGGVVER-----DVCHRC 195  
DB 66 APNTPPVPPVPPVQPOQASNPSP-----VSVLRRRYANPEQERCDISRRI 113  
QY 196 RHKRWHFI-----KPTNKSRESRRRQGEVTVLSVGRFRVTVKEHSKNQ 240  
DB 114 -HNPANQIPAAPNTQPEVPVPTVQPPSSQERASPTSPFITSTGLGL-----RR 164  
QY 241 ERSLMSVSGAETVNGEVPATPVKRR 267  
DB 165 RSSAGSIRMSATAQTNLPITPIRRR 191

RESULT 12  
S47633  
RXR protein - African clawed frog  
C;Species: *Xenopus laevis* (African clawed frog)  
C;Date: 19-Mar-1997 #sequence\_revision 19-Mar-1997 #text\_change 09-Jul-2004  
C;Accession: S47633  
R;Markiew, S.; Smith, D.P.; Mason, C.S.; Old, R.W.  
Biochim. Biophys. Acta 1218, 267-272, 1994  
A;Title: Isolation of a novel RXR from *Xenopus* that most closely resembles mammalian RXR  
A;Reference number: S47633; MUID:94325332; EMBL:8049252  
A;Accession: S47633  
A;Status: preliminary  
A;Molecule type: mRNA  
A;Residues: 1-452 <MAR>  
A;Cross-references: UNIPROT:Q91613; UNIPARC:UPI00000FD9F4; GB:S73269; NID:q685084; PIDN:



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Query Match      6.5%; Score 92; DB 2; Length 120;
Best Local Similarity 26.5%; Pred. No. 2;
Matches 26; Conservative 27; Mismatches 29; Indels 16; Gaps 5;

..
Qy      30  DNGSSRTLSRRTTTTPSPSNDTGNCHPEYATAYALVPFFIMGL--FGVLICHLKKKGVR 87
      || : : : || || || : : : || : : || : : || : : ||
Db      22  DNIALRSTNSDNLTPVST-----KYELRPVLMISLSMGSIVILILTR--R 69

Qy      88  CTTTEARQDIEEKVEKIELDNSVNENSDTVGQIVHYIM 125
      || : : : : : || : : : : : || : : : : : ||
Db      70  CLQDAESDL--TVALSEIDMND-VHOIFETQEVLEIL 105

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Search completed: February 23, 2006, 12:08:34  
Job time : 42 secs

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Result No.	Score	Query Match	Length	DB	ID	Description	
1	1291	100.0	1291	3	US-09-910-562-1	Sequence 1, Appli	
2	1291	100.0	1291	9	US-10-620-562-1	Sequence 1, Appli	
3	1196.6	92.7	1603	3	US-09-933-767-56	Sequence 56, Appl	
4	1196.6	92.7	1603	5	US-10-004-860-56	Sequence 56, Appl	
5	1196.6	92.7	1603	5	US-10-023-282-56	Sequence 56, Appl	
6	226.2	17.5	591	4	US-09-925-065A-84619	Sequence 84619, A	
7	115.4	8.9	694	8	US-10-363-345A-5597	Sequence 5597, Ap	
8	115.4	8.9	694	8	US-10-363-345A-5598	Sequence 5598, Ap	
9	115.4	8.9	694	9	US-10-363-483A-5597	Sequence 5597, Ap	
10	115.4	8.9	694	9	US-10-363-483A-5598	Sequence 5598, Ap	
11	104.6	8.1	694	8	US-10-363-483A-5599	Sequence 5599, Ap	
12	104.6	8.1	694	8	US-10-363-345A-5599	Sequence 5599, Ap	
13	104.6	8.1	694	8	US-10-363-345A-5600	Sequence 5600, Ap	
14	104.6	8.1	694	9	US-10-363-483A-5599	Sequence 5599, Ap	
15	74	5.7	2205	4	US-10-363-483A-5600	Sequence 5600, Ap	
16	74	5.7	2205	4	US-09-925-065A-2551	Sequence 2551, Ap	
17	74	5.7	2205	4	US-09-925-065A-2552	Sequence 2552, Ap	
18	74	5.7	2480	4	US-09-925-065A-2553	Sequence 2553, Ap	
19	74	5.7	2480	4	US-09-925-065A-720502	Sequence 720502,	
20	74	5.7	2480	4	US-09-925-065A-720503	Sequence 720503,	
21	74	5.7	2480	4	US-09-925-065A-720504	Sequence 720504,	
22	73	5.7	488	3	US-09-925-065A-720505	Sequence 720505,	
23	72.6	5.6	582	3	US-09-918-995-636	Sequence 636, App	
				3	US-09-910-562-3	Sequence 3, Appli	

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Qy 301 TGGGTCTCTTTGGGGTCTCTATTTGGCCACCTGCTTAAAGAGAAAGGCTATCGTTGTACAA 360
Db 301 TGGGTCTCTTTGGGGTCTCTATTTGGCCACCTGCTTAAAGAGAAAGGCTATCGTTGTACAA 360
Qy 361 CAGAAGCAGAGCAGATATCGAAGAGGAAAGGTTGAAAGATAGAAATGAATGACAGTG 420
Db 361 CAGAAGCAGAGCAGATATCGAAGAGGAAAGGTTGAAAGATAGAAATGAATGACAGTG 420
Qy 421 TGAATGAAGACAGTGACACTGTTGGGCAATCGTCCACTACATCATGAAAAATGAAGGA 480
Db 421 TGAATGAAGACAGTGACACTGTTGGGCAATCGTCCACTACATCATGAAAAATGAAGGA 480
Qy 481 ATGCTGATGTCCTTAAAGCGATGTAGCAGATAACAGCGCTGTATGATCTCTGAAAGCCCG 540
Db 481 ATGCTGATGTCCTTAAAGCGATGTAGCAGATAACAGCGCTGTATGATCTCTGAAAGCCCG 540
Qy 541 TGACCCCGACACACACAGGAGCCGCGCAGTGAAGTCTCTGGCCCTTTGTACCAAGGGGA 600
Db 541 TGACCCCGACACACACAGGAGCCGCGCAGTGAAGTCTCTGGCCCTTTGTACCAAGGGGA 600
Qy 601 CGCCAGGGAAGCAGCTCTGTGGCCATCATCTGCATACGGTGGGCGGTGTTGTCAGAGGG 660
Db 601 CGCCAGGGAAGCAGCTCTGTGGCCATCATCTGCATACGGTGGGCGGTGTTGTCAGAGGG 660
Qy 661 ATGTGTGTCTATCGGTGTAGGCACAGCGGTGGCACTTTTATAAGCCCACTAAACAAGTCCA 720
Db 661 ATGTGTGTCTATCGGTGTAGGCACAGCGGTGGCACTTTTATAAGCCCACTAAACAAGTCCA 720
Qy 721 GAGAGAGCAGACACGCGCCCAAGCGAGGTCAAGCGTCTCTTGTGTTGGCAGATTTAGAG 780
Db 721 GAGAGAGCAGACACGCGCCCAAGCGAGGTCAAGCGTCTCTTGTGTTGGCAGATTTAGAG 780
Qy 781 TTACAAAAGTGGACACAGTCAAAACAGAGGAACGGAGAGGCTGATGCTGTGTAGTG 840
Db 781 TTACAAAAGTGGACACAGTCAAAACAGAGGAACGGAGAGGCTGATGCTGTGTAGTG 840
Qy 841 GGGCTGAAACCGTCAATGGGGAGGTGCGGCAACACCTGTCAAGAGAGAACGCAAGTGCA 900
Db 841 GGGCTGAAACCGTCAATGGGGAGGTGCGGCAACACCTGTCAAGAGAGAACGCAAGTGCA 900
Qy 901 CAGAGTAGCAGGTGAGCGCTGTTTGTGTGACATTTGGGGCAGAGTGGTGCGAGGTGAGG 960
Db 901 CAGAGTAGCAGGTGAGCGCTGTTTGTGTGACATTTGGGGCAGAGTGGTGCGAGGTGAGG 960
Qy 961 AGAAGGTACTTGGAGCCTCCAGTGTCTGTGGCAGCATAGGAATGATTTGACAGGGAA 1020
Db 961 AGAAGGTACTTGGAGCCTCCAGTGTCTGTGGCAGCATAGGAATGATTTGACAGGGAA 1020
Qy 1021 GTGGGAGAGCTTCTTGAACCCAGAGACTGAGGGGACCTGAACATGATTTACTTGTCTG 1080
Db 1021 GTGGGAGAGCTTCTTGAACCCAGAGACTGAGGGGACCTGAACATGATTTACTTGTCTG 1080
Qy 1081 CTTAGAGCTTCTTGAAGAGTCAACAACTAGTGGCTCCAGGGGCTTGGCCCTGTGTGA 1140
Db 1081 CTTAGAGCTTCTTGAAGAGTCAACAACTAGTGGCTCCAGGGGCTTGGCCCTGTGTGA 1140
Qy 1141 TAATGAGATAGAGATTAATTTGAGGCAATGTGGCAATGTGGGATTTGGCAAACTA 1200
Db 1141 TAATGAGATAGAGATTAATTTGAGGCAATGTGGCAATGTGGGATTTGGCAAACTA 1200
Qy 1201 GAATTCACATCACCCACATATAGGGCTTGCAATACACAGGAGCAGAAAGCACCTAGTGT 1260
Db 1201 GAATTCACATCACCCACATATAGGGCTTGCAATACACAGGAGCAGAAAGCACCTAGTGT 1260
Qy 1261 TGCTGCACTCTTACGCAAAAAA 1291
Db 1261 TGCTGCACTCTTACGCAAAAAA 1291
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RESULT 2  
US-10-620-562-1  
; Sequence 1, Application US/10620562  
; Publication No. US2005090436A1

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; GENERAL INFORMATION:  
; APPLICANT: Zeng, Z et al.  
; TITLE OF INVENTION: Human Tumor Necrosis Factor receptors TR21 and TR22  
; FILE REFERENCE: PF530C1  
; CURRENT APPLICATION NUMBER: US/10/620,562  
; CURRENT FILING DATE: 2003-07-17  
; PRIOR APPLICATION NUMBER: 09/910,562  
; PRIOR FILING DATE: 2001-07-23  
; PRIOR APPLICATION NUMBER: 60/221,143  
; PRIOR FILING DATE: 2000-07-27  
; PRIOR APPLICATION NUMBER: 60/220,116  
; PRIOR FILING DATE: 2000-07-24  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 1291  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-10-620-562-1
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Query Match 100.0%; Score 1291; DB 9; Length 1291;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1291; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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Qy 241 ATACTGGGAATGGACACCAGAAATATATTGCATACGCGCTTGTCCCTGTGTTCTTTATCA 300  
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Qy 481 ATGCTGATGTCCTTAAAGCGATGTAGCAGATAACAGCGCTGTATGATCTCTGAAAGCCCG 540  
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Db 1261 TGCTGCATCTTCTTACCAAAAAA 1291

RESULT 3  
US-09-933-767-56  
; Sequence 56, Application US/09933767  
; Publication No. US20030181692A1  
; GENERAL INFORMATION:  
; APPLICANT: Ni et al.  
; TITLE OF INVENTION: 207 Human Secreted Proteins  
; FILE REFERENCE: P2007P2  
; CURRENT APPLICATION NUMBER: US/09/933,767  
; CURRENT FILING DATE: 2001-08-22  
; PRIOR APPLICATION NUMBER: PCT/US01/05614  
; PRIOR FILING DATE: 2001-02-21  
; PRIOR APPLICATION NUMBER: 60/184,836  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/193,170  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: 09/205,258  
; PRIOR FILING DATE: 1998-12-04  
; PRIOR APPLICATION NUMBER: PCT/US98/11422  
; PRIOR FILING DATE: 1998-06-04  
; PRIOR APPLICATION NUMBER: 60/048,895  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/049,375  
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; PRIOR FILING DATE: 1997-06-06  
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; PRIOR APPLICATION NUMBER: 60/048,896  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/049,020  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,876

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; PRIOR APPLICATION NUMBER: 60/048,895  
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; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 60/068,053  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 60/070,923  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 60/073,160  
; PRIOR FILING DATE: 1998-01-30  
; PRIOR APPLICATION NUMBER: 60/073,159  
; PRIOR FILING DATE: 1998-01-30  
; PRIOR APPLICATION NUMBER: 60/073,165  
; PRIOR FILING DATE: 1998-01-30

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/ PRIOR APPLICATION NUMBER: 60/073,164
/ PRIOR FILING DATE: 1998-01-30
/ PRIOR APPLICATION NUMBER: 60/085,925
/ PRIOR FILING DATE: 1998-05-18
/ PRIOR APPLICATION NUMBER: 60/085,921
/ PRIOR FILING DATE: 1998-05-18
/ PRIOR APPLICATION NUMBER: 60/085,923
/ PRIOR FILING DATE: 1998-05-18
/ PRIOR APPLICATION NUMBER: 60/085,922
/ PRIOR FILING DATE: 1998-05-18
/ PRIOR APPLICATION NUMBER: 60/092,921
/ PRIOR FILING DATE: 1998-07-15
/ PRIOR APPLICATION NUMBER: 60/094,657
/ PRIOR FILING DATE: 1998-07-30
/ NUMBER OF SEQ ID NOS: 1245
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 56
/ LENGTH: 1603
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: SITE
/ LOCATION: (328)
/ OTHER INFORMATION: n equals a.t,g, or c
/ NAME/KEY: SITE
/ LOCATION: (336)
/ OTHER INFORMATION: n equals a.t,g, or c
/ NAME/KEY: SITE
/ LOCATION: (341)
/ OTHER INFORMATION: n equals a.t,g, or c
/ NAME/KEY: SITE
/ LOCATION: (788)
/ OTHER INFORMATION: n equals a.t,g, or c
/ US-09-933-767-56

Query Match          92.7%; Score 1196.6; DB 3; Length 1603;
Best Local Similarity 97.9%; Pred. No. 0;
Matches 1268; Conservative 5; Mismatches 13; Indels 9; Gaps 6;

Qy 1 CCACGGCTCGGCGCCCGGCTCCGAGCGGCTCTGCTCCGCTCCGAGCGGCGGCGCGG 60
Db 7 CCACGGCTCGGCGCCCGGCTCCGAGCGGCTCTGCTCCGCTCCGAGCGGCGGCGG 64

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Db 65 GCCTGGGGAGGAGGCGGAG--CGACGCGGATGGCTCCGCGGCGACTCCCGGGTCCG 123

Qy 121 CGCTCCTAGCCGCTGCTCTTCTGTTGGAGCGCGCTGAGTTGCGCGCTGCTGCTCCGG 180
Db 124 CGCTCCTAGCCGCTGCTCTTCTGTTGGAGCGCGCTGAGTTGCGCGCTGCTGCTCCGG 183

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Db 184 ACAATGGAGCAGCGGACATTTGCACTTCAGAGACAGAGACGACCCCGTCCGCGCAACG 243

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Db 244 ATACTGGATGACACCCAGATATATTCATACCGCTTGTCCCTGCTCTTTATCA 303

Qy 301 TGGGTCTCTTTGGGCTCCTCATTTGCCACCTGC---TTAAGAGAGAAAGGCTATCGTTGTA 357
Db 304 TGGGTCTCTTTGGGCTCCTCATTTNGCCMCTNGCTTNAAGAGAAAGGCTATCGTTGTA 363

Qy 358 CAACAGAGCAGAGCAAGATATCGAAGG-AAAAGTTGAAAGATAGAAATGAATGAC 416
Db 364 CAACAGAGCAGAGCAAGATATCGAAGAGAAAGGTTGAAAGWTAGRAATTGAATGAC 423

Qy 417 AGTGTGAATCAAAACAGTGACACTGTTGGGCAATCGTCCACTACATCATGAATAATGAA 476
Db 424 AGTGTGAATCAAAACAGTGACACTGTTGGGCAATCGTCCACTACATCATGAATAATGAA 483

Qy 477 GCGAATGCTGATGCTTTAAAGGGCGATGGTAGCAGATAACAGCGCTGTATGATCTCTGAAGC 536
Db 477 GCGAATGCTGATGCTTTAAAGGGCGATGGTAGCAGATAACAGCGCTGTATGATCTCTGAAGC 536

Db 484 GCGAATGCTGATGCTTTAAAGGGCGATGGTAGCAGATAACAGCGCTGTATGATCTCTGAAGC 543
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Db 544 CCCTGACCCCGCAGCAGACACAGGGAGCCCGCAGTGAAGTCTCTGGG-CTTTGTCAACAGG 602
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Db 603 GGACACCGCAGGGAAGCAGCTCTGTGGCCATCATCTGCATACGGTGGCGGCTGTGTGCGAG 662
Qy 657 AGGATGTGTGTCATCGGTGTAGGCACAAGCGGTGGCACTTTATAAAGCCCACTAAACAAG 716
Db 663 AGGATGTGTGTCATCGGTGTAGGCACAAGCGGTGGCACTTTATAAAGCCCACTAAACAAG 722
Qy 717 TCCAGAGAGAGCAGACACCGCGCCCAAGGCGAGGTACGGTCTCTTCTGTGTGGCAGATTT 776
Db 723 TCCAGAGAGAGCAGACACCGCGCCCAAGGCGAGGTACGGTCTCTTCTGTGTGGCAGATTT 782
Qy 777 AGAGTTACAAAAGTGGAGCACAAGTCAAAACAGAGGAACGGAGACCTGATCTCTGTT 836
Db 783 AGAGTTACAAAAGTGGAGCACAAGTCAAAACAGAGGAACGGAGACCTGATCTCTGTT 842
Qy 837 AGTGGGCTGAACCCGTCAATGGGGAGGTGCCGCGCAACACTGTGAAGAGAGAACGCGAGT 896
Db 843 AGTGGGCTGAACCCGTCAATGGGGAGGTGCCGCGCAACACTGTGAAGAGAGAACGCGAGT 902
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Qy 1197 ACTAGAATTCACATCACCCACCATATAGGGCTTTGCATTTACACGAGGCGAGAAAGCCTTA 1256
Db 1202 ACTAGAATTCACATCACCCACCATATAGGGCTTTGCATTTACACGAGGCGAGAAAGCCTTA 1261
Qy 1257 GTGTTGCTGCATCTTCTTACGCAAAAAA 1291
Db 1262 GTGTTGCTGCATCTTCTTACGCAAAAAAAGACAAA 1296

RESULT 4
US-10-004-860-56
; Sequence 56, Application US/10004860
; Publication No. US20030065160A1
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: F2007P1
; CURRENT APPLICATION NUMBER: US/10/004,860
; CURRENT FILING DATE: 2001-12-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 1227
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 56
; LENGTH: 1603
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: SITE
; LOCATION: (328)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (336)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (341)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (788)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-004-860-56

Query Match          92.7%; Score 1196.6; DB 5; Length 1603;
Best Local Similarity 97.9%; Pred. No. 0;
Matches 1268; Conservative 5; Mismatches 13; Indels 9; Gaps 6;

Qy 1 CCCACGGCTCCGGCCCGGCTCCGAGCGGCTCTGCTTCCGAGCGGGGACGGCG 60
Db 7 CCCACGGCTCCGGCCCGGCTCCGAGCGGCTCTGCTTCCGAGCGGGGACGGCG 64
Qy 61 GCCCTGGGGAGGAGGGCGAAGCGACCGCGATGGCTCCGCGGGGCACTCCCGGGTCCG 120
Db 65 GCCCTGGGGAGGAGGGCGAA-CGACGGCGATGGCTCCGCGGGCACTCCCGGGTCCG 123
Qy 121 CCCTCTAGCGCTGCTCTCTCTGGGAGCGCGGTAGTTCGCGGTGGTGGTCCGG 180
Db 124 CCCTCTAGCGCTGCTCTCTCTGGGAGCGCGGTAGTTCGCGGTGGTGGTCCGG 183
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Qy 358 CAACAGAGCAGACAGATATCAAGAGG-AAAAGTTGAAGAAGATAGATCAATGAC 416
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Qy 477 GCGAATGCTGATGCTTAAAGCGATGGTAGAGATTAACAGCTGTATGATCTCGAAGC 536
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; Sequence 56, Application US/10023282
; Publication No. US20030092893A1
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/10/023,282
; CURRENT FILING DATE: 2001-12-20
; EARLIER APPLICATION NUMBER: 09/205,258
; EARLIER FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: PCT/US98/11422
; EARLIER FILING DATE: 1998-06-04
; EARLIER APPLICATION NUMBER: 60/048,885
; EARLIER FILING DATE: 1997-06-06
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; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,876
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,895
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,884
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,894
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,971
; EARLIER FILING DATE: 1997-06-06
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Db 903 GGCACAGTAGCAGGTGAGCGGTGTTTTCGTGACATTTGGGCGACAGTGGTGCAGGGT 962  
Qy 957 GAGGAGAAGTACTTTGGAGCTCCAGGTCTGTGGCAGCATAGAAATGGTATTGGACAG 1016  
Db 963 GAGGAGAAGTACTTTGGAGCTCCAGGTCTGTGGCAGCATAGAAATGGTATTGGACAG 1022  
Qy 1017 GGAAGTGGGAGAGCTTTCTTGAACCCAGGAGACTGAGGGGAGCTGAACATGATTACTTTG 1076  
Db 1023 GGAAGTGGGAGAGCTTTCTTGAACCCAGGAGACTGAGGGGAGCTGAACATGATTACTTTG 1082  
Qy 1077 TCTGCTAGAGCTTTCTTGAAGAGAGTCAACAACTTAGTGCTCCAGGGCTTGGCCGTGT 1136  
Db 1083 TCTGCTAGAGCTTTCTTGAAGAGTCAACAACTTAGTGCTCCAGGGCTTGG-CTGT 1141  
Qy 1137 GTGATAATGAGATAGAGGATTACTTTGTGAGGCAATGTGGCATGTGGGGAATTTGGCAA 1196  
Db 1142 GTGATAATGAGATAGAGGATTACTTTGTGAGGCAATGTGGCATGTGGGGAATTTGGCAA 1201  
Qy 1197 ACTAGAATTCAATCACCACCATATAGGGCTTGCATTACCAAGGCGAGAAAGCACCTA 1256  
Db 1202 ACTAGAATTCAATCACCACCATATAGGGCTTGCATTACCAAGGCGAGAAAGCACCTA 1261  
Qy 1257 GTGTTGCTGCATCTTTTACGCAAAAAA 1291  
Db 1262 GTGTTGCTGCATCTTTTACGCAAAAAAAGACAAA 1296

RESULT 6  
US-09-925-065A-84619  
; Sequence 84619, Application US/09925065A  
; Publication No. US2005028172A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome  
; FILE REFERENCE: 108827.135  
; CURRENT APPLICATION NUMBER: US/09/925.065A  
; CURRENT FILING DATE: 2001-08-08  
; PRIOR APPLICATION NUMBER: US 60/243,096  
; PRIOR FILING DATE: 2000-10-24  
; PRIOR APPLICATION NUMBER: US 60/252,147  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/250,092  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: US 60/261,766  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/289,846  
; PRIOR FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 957086  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 84619  
; LENGTH: 591  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-925-065A-84619

Query Match 17.5%; Score 226.2; DB 4; Length 591;  
Best Local Similarity 98.7%; Pred. No. 1.2e-57;  
Matches 228; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 175 CTCGGACAATGGGAGCGCGCACATTTGCACTCCAGAACAGACGACCCCGTCGCCCA 234  
Db 111 CTGTAGACAATGGGAGCGCGCACATTTGCACTCCAGAACAGACGACCCCGTCGCCCA 170  
Qy 235 GCAACGATACCTGGGAATGGACACCCAGNATATATTCATAGCGCTTGTCCCTGTGTCT 294  
Db 171 GCAACGATACCTGGGAATGGACACCCAGNATATATTCATAGCGCTTGTCCCTGTGTCT 230  
Qy 295 TTATCATGGGTCTCTTTGGCGTCTCTATTTCGCCACCTGCTTAAAGAAAGGCTATCGTT 354  
Db 231 TTATCATGGGTCTCTTTGGCGTCTCTATTTCGCCACCTGCTTAAAGAAAGGCTATCGTT 290  
Qy 355 GTACAACAGAACGACAGCAAGATATCGAAGAGGAAAAGGTTTGAAGAGATAG 405

Db 291 GTACAACAGAACGACAGCAAGATATCGAAGAGGAAAAGGTTTGAAGAGATAG 341

## RESULT 7

US-10-363-345A-5597  
; Sequence 5597, Application US/10363345A  
; Publication No. US20040234960A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexander Olek  
; APPLICANT: Christian Piepenbrock  
; APPLICANT: Kurt Berlin  
; TITLE OF INVENTION: Method for determining the degree of methylation of defined  
; FILE REFERENCE: E01/1227  
; CURRENT APPLICATION NUMBER: US/10/363.345A  
; CURRENT FILING DATE: 2003-03-03  
; NUMBER OF SEQ ID NOS: 40712  
; SEQ ID NO 5597  
; LENGTH: 694  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
; OTHER INFORMATION: Cpg-Island No: 5597  
US-10-363-345A-5597

Query Match 8.9%; Score 115.4; DB 8; Length 694;  
Best Local Similarity 81.2%; Pred. No. 6.4e-24;  
Matches 134; Conservative 0; Mismatches 31; Indels 0; Gaps 0;  
Qy 16 GCCTGGCTCCGGAGCGGCTCTCCCTTCCGAGCGGAGCGCGCCCTGGGGAGGAG 75  
Db 246 GGTGGTTTCGAGCGGTTTGTGTTTTTCGAGCGGAGCGCGGCTTTGGGGAGGAG 305  
Qy 76 GCGAAGCGAGCGCGGATGCTCCGGGGCACTCCCGGGGTCCGCCCTCTAGCCGCTG 135  
Db 306 GCGAAGCGAGCGCGGATGCTTCCGGGGTATTTTCGGGGTTCGTCGTTTAGTCGTG 365  
Qy 136 CTGCTTTCGTGGAGCGCGCTGAGTTCCGCGCTGGTGGCTCCCG 180  
Db 366 TTGTTTTTCGTGGAGCGGCTCGTGTGTTGTTGGTTTCGG 410

## RESULT 8

US-10-363-345A-5598/c  
; Sequence 5598, Application US/10363345A  
; Publication No. US20040234960A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexander Olek  
; APPLICANT: Christian Piepenbrock  
; APPLICANT: Kurt Berlin  
; TITLE OF INVENTION: Method for determining the degree of methylation of defined  
; FILE REFERENCE: E01/1227  
; CURRENT APPLICATION NUMBER: US/10/363.345A  
; CURRENT FILING DATE: 2003-03-03  
; NUMBER OF SEQ ID NOS: 40712  
; SEQ ID NO 5598  
; LENGTH: 694  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
; OTHER INFORMATION: Cpg-Island No: 5598  
US-10-363-345A-5598

Query Match 8.9%; Score 115.4; DB 8; Length 694;  
Best Local Similarity 81.2%; Pred. No. 6.4e-24;  
Matches 134; Conservative 0; Mismatches 31; Indels 0; Gaps 0;  
Qy 16 GCCTGGCTCCGGAGCGGCTCTCCCTTCCGAGCGGAGCGCGCCCTGGGGAGGAG 75

Db 449 CGTCGGTTTCGGAGCGGTTTGTGTTTTTCAGAGCGCGGAGCGCGGCTTTTGGGGGAGGAG 390  
Qy 76 GGGGAGCGAGCGGCGCATGGCTCCGGGGGACATCCCGGGGTCCGCGTCTAGCCGCTG 135  
Db 389 GGGGAGCGAGCGGCGCATGGTTTCGGGGGTATTTTCGGGGTTCGTCGTTTATGTCGTTG 330  
Qy 136 CTGTCTTCGTGGGAGGCGCGTGTAGTTTCGCGCTGTGGTCCGG 180  
Db 329 TTGTTTTCGTGGGAGGCGTGTGAGTTCGTCGTTGGTGGTTTCGG 285

## RESULT 9

US-10-363-483A-5597  
; Sequence 5597, Application US/10363483A  
; Publication No. US2005006401A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexander Olek  
; APPLICANT: Christian Piepenbrock  
; APPLICANT: Kurt Berlin  
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain  
; FILE REFERENCE: 82011  
; CURRENT APPLICATION NUMBER: US/10/363.483A  
; CURRENT FILING DATE: 2003-03-03  
; NUMBER OF SEQ ID NOS: 40712  
; SEQ ID NO 5597  
; LENGTH: 694  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
; OTHER INFORMATION: CpG-island No: 5597  
US-10-363-483A-5597

Query Match 8.9%; Score 115.4; DB 9; Length 694;  
Best Local Similarity 81.2%; Pred. No. 6.4e-24;  
Matches 134; Conservative 0; Mismatches 31; Indels 0; Gaps 0;  
Qy 16 CGCGCGCTCCGGAGCGGCTCTGCTTCCGAGCGCGGAGCGCGGCCCTGGGGGAGGAG 75  
Db 246 CGTCGGTTTCGGAGCGGTTTGTGTTTTTCGAGCGCGGAGCGCGCGCTTTTGGGGGAGGAG 305  
Qy 76 GGGGAGCGAGCGGCGCATGGCTCCGGGGACATCCCGGGGTCCGCGTCTAGCCGCTG 135  
Db 306 GGGGAGCGAGCGGCGCATGGTTTCGGGGGTATTTTCGGGGTTCGTCGTTTATGTCGTTG 365  
Qy 136 CTGTCTTCGTGGGAGGCGCGTGTAGTTTCGCGCTGTGGTCCGG 180  
Db 366 TTGTTTTCGTGGGAGGCGTGTGAGTTCGTCGTTGGTGGTTTCGG 410

## RESULT 10

US-10-363-483A-5598/c  
; Sequence 5598, Application US/10363483A  
; Publication No. US2005006401A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexander Olek  
; APPLICANT: Christian Piepenbrock  
; APPLICANT: Kurt Berlin  
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain  
; FILE REFERENCE: 82011  
; CURRENT APPLICATION NUMBER: US/10/363.483A  
; CURRENT FILING DATE: 2003-03-03  
; NUMBER OF SEQ ID NOS: 40712  
; SEQ ID NO 5598  
; LENGTH: 694  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
; OTHER INFORMATION: CpG-island No: 5598  
US-10-363-483A-5598

Query Match 8.9%; Score 115.4; DB 9; Length 694;  
Best Local Similarity 81.2%; Pred. No. 6.4e-24;  
Matches 134; Conservative 0; Mismatches 31; Indels 0; Gaps 0;  
Qy 16 CGCGCGCTCCGGAGCGGCTCTGCTTCCGAGCGCGGAGCGCGGCCCTGGGGGAGGAG 75  
Db 449 CGTCGGTTTCGGAGCGGTTTGTGTTTTTCGAGCGCGGAGCGCGCGCTTTTGGGGGAGGAG 390  
Qy 76 GGGGAGCGAGCGGCGCATGGCTCCCGGGGACATCCCGGGGTCCGCGTCTAGCCGCTG 135  
Db 389 GGGGAGCGAGCGGCGCATGGTTTCGGGGGTATTTTCGGGGTTCGTCGTTTATGTCGTTG 330  
Qy 136 CTGTCTTCGTGGGAGGCGCGTGTAGTTTCGCGCTGTGGTCCGG 180  
Db 329 TTGTTTTCGTGGGAGGCGTGTGAGTTCGTCGTTGGTGGTTTCGG 285

## RESULT 11

US-10-363-345A-5599/c  
; Sequence 5599, Application US/10363345A  
; Publication No. US20040234960A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexander Olek  
; APPLICANT: Christian Piepenbrock  
; APPLICANT: Kurt Berlin  
; TITLE OF INVENTION: Method for determining the degree of methylation of defined  
; FILE REFERENCE: E01/1227  
; CURRENT APPLICATION NUMBER: US/10/363.345A  
; CURRENT FILING DATE: 2003-03-03  
; NUMBER OF SEQ ID NOS: 40712  
; SEQ ID NO 5599  
; LENGTH: 694  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
; OTHER INFORMATION: CpG-island No: 5599  
US-10-363-345A-5599

Query Match 8.1%; Score 104.6; DB 8; Length 694;  
Best Local Similarity 73.2%; Pred. No. 1.2e-20;  
Matches 134; Conservative 0; Mismatches 49; Indels 0; Gaps 0;  
Qy 2 CCAAGCGTCCGGCCCGCGCTCCGAGCGGCTCTGCTTCCGAGCGCGGAGCGCGCG 61  
Db 463 CCACTCGATCAACCCCGCGACTCCGAAACGACTCTACTTCCGAGCGGAAACGCGACG 404  
Qy 62 CCTGGGGAGGAGGGGGAAGCGAGCGCGCGATGGCTCCCGGGGCACTCCCGGGTCCGC 121  
Db 403 CCTTAAAAAAGAAAAAGAAACGAAACGACGCGACGATAACTCCGCGAACACTCCGAAATCCGC 344  
Qy 122 CGTCTTAGCGCTGCTGTCTTCGTGGGAGCGCGGTGAGTTCGCGCTGTGGTCCCGGA 181  
Db 343 CGTCTTAACCGCTACTATCTTCGTAAAAAAGCGCGTAATTCGCCGCTAATACTCCGAA 284  
Qy 182 CAA 184  
Db 283 TAA 281

## RESULT 12

US-10-363-345A-5600  
; Sequence 5600, Application US/10363345A  
; Publication No. US20040234960A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexander Olek  
; APPLICANT: Christian Piepenbrock  
; APPLICANT: Kurt Berlin  
; TITLE OF INVENTION: Method for determining the degree of methylation of defined  
; FILE REFERENCE: E01/1227  
US-10-363-345A-5600



```
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-2551

Query Match      5.7%; Score 74; DB 4; Length 2205;
Best Local Similarity 100.0%; Pred. No. 4.4e-11;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 404 AGAATTGAATGACAGTGTGTAATGAAACAGTGCACACTGTTGGGCAAAATCGTCCACTACAT 463
    |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 159 AGAATTGAATGACAGTGTGTAATGAAACAGTGCACACTGTTGGGCAAAATCGTCCACTACAT 218
    |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Qy 464 CATGAAAAATGAAG 477
    ||||||||||||
Db 219 CATGAAAAATGAAG 232
    ||||||||||||
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Search completed: February 23, 2006, 17:25:18  
Job time : 1205 secs



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Db      231 TTATCATGGGCTCTTTGGCGCTCTCAATTTCCACCTGCTTTAAGAAGAAAGGCTATCGTT 290
Qy      355 GTACAACAGACGACGACGATATCGAAGAGGAAAGGTTGAAAGATAG 405
Db      291 GTACACAGACGACGACGATATCGAAGAGGAAAGGTTGAAAGATAG 341

RESULT 2
US-09-925-065A-2551
; Sequence 2551, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2551
; LENGTH: 2205
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-2551

Query Match      5.7%; Score 74; DB 6; Length 2205;
Best Local Similarity 100.0%; Pred. No. 2.9e-10; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 0;

Qy      404 AGAATTGAATGACAGTGTGAATGAAACACGTGACACTGTTGGGCAAAATCGTCCACTACAT 463
Db      159 AGAATTGAATGACAGTGTGAATGAAACACGTGACACTGTTGGGCAAAATCGTCCACTACAT 218

Qy      464 CATGAAAAATGAAG 477
Db      219 CATGAAAAATGAAG 232

RESULT 3
US-09-925-065A-2552
; Sequence 2552, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2552
; LENGTH: 2205
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-2552

Query Match      5.7%; Score 74; DB 6; Length 2205;
Best Local Similarity 100.0%; Pred. No. 2.9e-10; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 0;

Qy      404 AGAATTGAATGACAGTGTGAATGAAACACGTGACACTGTTGGGCAAAATCGTCCACTACAT 463
Db      159 AGAATTGAATGACAGTGTGAATGAAACACGTGACACTGTTGGGCAAAATCGTCCACTACAT 218

Qy      464 CATGAAAAATGAAG 477
Db      219 CATGAAAAATGAAG 232

RESULT 4
US-09-925-065A-2553
; Sequence 2553, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2553
; LENGTH: 2205
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-2553

Query Match      5.7%; Score 74; DB 6; Length 2205;
Best Local Similarity 100.0%; Pred. No. 2.9e-10; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 0;

Qy      404 AGAATTGAATGACAGTGTGAATGAAACACGTGACACTGTTGGGCAAAATCGTCCACTACAT 463
Db      159 AGAATTGAATGACAGTGTGAATGAAACACGTGACACTGTTGGGCAAAATCGTCCACTACAT 218

Qy      464 CATGAAAAATGAAG 477
Db      219 CATGAAAAATGAAG 232

RESULT 5
US-09-925-065A-720502
; Sequence 720502, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
```

```
; LENGTH: 2205
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-2552

Query Match      5.7%; Score 74; DB 6; Length 2205;
Best Local Similarity 100.0%; Pred. No. 2.9e-10; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 0;

Qy      404 AGAATTGAATGACAGTGTGAATGAAACACGTGACACTGTTGGGCAAAATCGTCCACTACAT 463
Db      159 AGAATTGAATGACAGTGTGAATGAAACACGTGACACTGTTGGGCAAAATCGTCCACTACAT 218

Qy      464 CATGAAAAATGAAG 477
Db      219 CATGAAAAATGAAG 232

RESULT 4
US-09-925-065A-2553
; Sequence 2553, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2553
; LENGTH: 2205
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-2553

Query Match      5.7%; Score 74; DB 6; Length 2205;
Best Local Similarity 100.0%; Pred. No. 2.9e-10; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 0;

Qy      404 AGAATTGAATGACAGTGTGAATGAAACACGTGACACTGTTGGGCAAAATCGTCCACTACAT 463
Db      159 AGAATTGAATGACAGTGTGAATGAAACACGTGACACTGTTGGGCAAAATCGTCCACTACAT 218

Qy      464 CATGAAAAATGAAG 477
Db      219 CATGAAAAATGAAG 232

RESULT 5
US-09-925-065A-720502
; Sequence 720502, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925.065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
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; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 720502
; LENGTH: 2480
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-065A-720502

Query Match          5.7%; Score 74; DB 6; Length 2480;
Best Local Similarity 100.0%; Pred. No. 3e-10;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 404 AGAATTGAATGACAGTGTGAATGAAACAGTGACACTGTTGGCAAAATCGTCCACTACAT 463
      |||||||
Db 434 AGAATTGAATGACAGTGTGAATGAAACAGTGACACTGTTGGCAAAATCGTCCACTACAT 493

Qy 464 CATGAAAAATGAAG 477
      |||||||
Db 494 CATGAAAAATGAAG 507

RESULT 6
US-09-925-065A-720503
; Sequence 720503, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 720503
; LENGTH: 2480
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-065A-720503

Query Match          5.7%; Score 74; DB 6; Length 2480;
Best Local Similarity 100.0%; Pred. No. 3e-10;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 404 AGAATTGAATGACAGTGTGAATGAAACAGTGACACTGTTGGCAAAATCGTCCACTACAT 463
      |||||||
Db 434 AGAATTGAATGACAGTGTGAATGAAACAGTGACACTGTTGGCAAAATCGTCCACTACAT 493

Qy 464 CATGAAAAATGAAG 477
      |||||||
Db 494 CATGAAAAATGAAG 507

RESULT 7
US-09-925-065A-720504
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; Sequence 720504, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 720504
; LENGTH: 2480
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-065A-720504

Query Match          5.7%; Score 74; DB 6; Length 2480;
Best Local Similarity 100.0%; Pred. No. 3e-10;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 404 AGAATTGAATGACAGTGTGAATGAAACAGTGACACTGTTGGCAAAATCGTCCACTACAT 463
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Db 434 AGAATTGAATGACAGTGTGAATGAAACAGTGACACTGTTGGCAAAATCGTCCACTACAT 493

Qy 464 CATGAAAAATGAAG 477
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Db 494 CATGAAAAATGAAG 507

RESULT 8
US-09-925-065A-720505
; Sequence 720505, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 720505
; LENGTH: 2480
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-925-065A-720505

Query Match          5.7%; Score 74; DB 6; Length 2480;
Best Local Similarity 100.0%; Pred. No. 3e-10;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy	404	AGATTGAATGACAGCTGTGAATGA	AAACAGTGACACACTGTTGGGCAAAATCGTCCACTACAT	463
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Db	494	CATGAAAAAATGAAG	507	

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US-11-042-814-1
; Sequence 1, Application US/11042814
; Publication No. US20060024267A1
; GENERAL INFORMATION:
; APPLICANT: Jing. Shuqian
; APPLICANT: Weiher, Andrew A
; APPLICANT: Boedigheimer, Michael J
; APPLICANT: Shu, Junyan
; APPLICANT: Gary M. Fox
; TITLE OF INVENTION: TNPr/OPG-LIKE MOLECULES AND USES THEREOF
; FILE REFERENCE: 01017/36854
; CURRENT APPLICATION NUMBER: US/11/042,814
; CURRENT FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: US/10/146,574
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/724,037
; PRIOR FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2638
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (195)..(1484)
US-11-042-814-1

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## RESULT 10

US-11-042-814-3  
; Sequence 3, Application US/11042814  
; Publication No. US20060024267A1  
; GENERAL INFORMATION:  
; APPLICANT: Jing, Shuqian  
; APPLICANT: Welch, Andrew A  
; APPLICANT: Boedigheimer, Michael J  
; APPLICANT: Gary, Junyan  
; APPLICANT: Shu, M. Fox

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, TITLE OF INVENTION:  TNPTr/OPG-LIKE MOLECULES AND USES THEREOF
, FILE REFERENCE:  01017/36854
, CURRENT APPLICATION NUMBER:  US/11/042,814
, CURRENT FILING DATE:  2005-01-25
, PRIOR APPLICATION NUMBER:  US/10/146,574
, PRIOR FILING DATE:  2002-05-15
, PRIOR APPLICATION NUMBER:  US/09/724,037
, PRIOR FILING DATE:  2000-11-28
, NUMBER OF SEQ ID NOS:  28
, SOFTWARE:  PatentIn Ver. 2.0
, SEQ ID NO 3
, LENGTH:  2479
, TYPE:  DNA
, ORGANISM:  Mus musculus
, FEATURE:
, NAME/KEY:  CDS
, LOCATION:  (91)..(1398)
US-11-042-814-3

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## RESIT.T 11

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US-09-925-065A-38365
; Sequence 38365, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38365
; LENGTH: 1155
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-38365

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/ APPLICANT: Tchernev, Velizar  
 / APPLICANT: Zhong, Mei  
 / APPLICANT: Anderson, David  
 / APPLICANT: Ballinger, Robert  
 / APPLICANT: Gerlach, Valerie  
 / APPLICANT: Spytek, Kimberly  
 / APPLICANT: Ratelli, Luca  
 / APPLICANT: Kekuda, Ramesh  
 / APPLICANT: Guo, Xiaojia  
 / APPLICANT: Zerhusen, Bryan  
 / APPLICANT: Andrew, David  
 / APPLICANT: Mezes, Peter  
 / APPLICANT: Patturajan, Meera  
 / APPLICANT: Burgess, Catherine  
 / APPLICANT: Eisen, Andrew  
 / APPLICANT: Wolenc, Adam  
 / APPLICANT: Baumgartner, Jason  
 / APPLICANT: Shinkets, Richard  
 / APPLICANT: Gusev, Vladimir

APPLICANT: Pena, Carol  
APPLICANT: Shenoy, Suresh  
APPLICANT: Li, Li  
APPLICANT: Casman, Stacie  
APPLICANT: Boldog, Ference  
TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby  
FILE REFERENCE: 21402-251  
CURRENT APPLICATION NUMBER: US/10/055,877  
CURRENT FILING DATE: 2002-01-22  
PRIOR APPLICATION NUMBER: 60/262,892  
PRIOR FILING DATE: 2001-01-19  
PRIOR APPLICATION NUMBER: 60/263,598  
PRIOR FILING DATE: 2001-01-23  
PRIOR APPLICATION NUMBER: 60/263,799  
PRIOR FILING DATE: 2001-01-24  
PRIOR APPLICATION NUMBER: 60/264,117  
PRIOR FILING DATE: 2001-01-25  
PRIOR APPLICATION NUMBER: 60/264,139  
PRIOR FILING DATE: 2001-01-25  
PRIOR APPLICATION NUMBER: 60/264,478  
PRIOR FILING DATE: 2001-01-26  
PRIOR APPLICATION NUMBER: 60/263,351

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/ PRIOR FILING DATE: 2001-03-02
/ PRIOR APPLICATION NUMBER: 60/272,870
/ PRIOR FILING DATE: 2001-03-02
/ PRIOR APPLICATION NUMBER: 60/275,990
/ PRIOR FILING DATE: 2001-03-14
/ PRIOR APPLICATION NUMBER: 60/375,927
/ PRIOR FILING DATE: 2001-03-14
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 512
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 29
/ LENGTH: 1189
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (85)..(1143)
US-10-055-877-29
Query Match 3.3%; Score 42.6; DB 8; Length 1189;

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Qy 129 GCCGCTGCTGTTCTGTTGGAGGCGCCGCTGAGTTGCGCGCTGGTGGCTCCGGAACAATGGG 188
Db 382 GGCCCGCGCGCTGCGGGGCACTTCGGGGAAGCGCGCTGGAGGATCTGTACTGGATG 441
Qy 189 AGCAGCGGCACATGCACTCCAGAACAGAGACGACCCGCTGCCAGCAACGATCTGGG 248
Db 442 AGCGCTACCAAGCATCACCTCAACCCGAGCGCTCAACCTGAGCCCGAGGACGCGGTG 501
Qy 249 AATGGACAC 257
Db 502 GAGCGGCTC 510
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RESULT 14
US-09-925-065A-28354/c
; Sequence 28354, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIORITY FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28354
; LENGTH: 811
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-28354
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Query Match 3.2%; Score 41.6; DB 6; Length 811;
Best Local Similarity 56.6%; Pred. No. 0.22;
Matches 77; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

Qy 43 CCAGAGCCGGGACCGCGCCCTGGGGAGGAGGGCGAAGCGAGCGCGCGATGGCTCCGC 102
Db 281 CCGGGGCGTGGCGGGGCGCAGGTGCACGAGGTTGGCCGCGGCGCGCGGGTCCGG 222
Qy 103 GGGCACTCCCGGGTCCGCGCTCTAGCCGCTGCTGTCTTCTGTGGAGGCGCGTGAGTT 162
Db 221 CGGGAGTCCCGGGGTGGTCCCGCGTGGGCGCGGGCGTCCGCGCGGGCGCGGAGGT 162
Qy 163 CGCGCTGTGGTCTCC 178
Db 161 CGGGAGGCGAGCTGC 146
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RESULT 15
US-09-925-065A-28355/c
; Sequence 28355, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIORITY FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
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; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28355
; LENGTH: 811
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-28355
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Query Match 3.2%; Score 41.6; DB 6; Length 811;
Best Local Similarity 56.6%; Pred. No. 0.22;
Matches 77; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

Qy 43 CCAGAGCCGGGACCGCGCCCTGGGGAGGAGGGCGAAGCGAGCGCGCGATGGCTCCGC 102
Db 281 CCGGGGCGTGGCGGGGCGCAGGTGCACGAGGTTGGCCGCGGCGCGGGTCCGG 222
Qy 103 GGGCACTCCCGGGTCCGCGCTCTAGCCGCTGCTGTCTTCTGTGGAGGCGCGTGAGTT 162
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Job time : 443 secs

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 23, 2006, 14:49:57 ; Search time 6919 Seconds  
(without alignments)  
10606.286 Million cell updates/sec

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Perfect score: 1291  
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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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1: gb\_ba.\*

2: gb\_in.\*

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6: gb\_pat.\*

7: gb\_ph.\*

8: gb\_pr.\*

9: gb\_ro.\*

10: gb\_sts.\*

11: gb\_sy.\*

12: gb\_un.\*

13: gb\_vi.\*

14: gb\_htg.\*

15: gb\_pl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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5	900	69.7	1320	6	AX136257
6	900	69.7	1320	8	AK075468
7	899	69.6	1364	8	BC039540
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9	685.2	53.1	726	6	CS051580
10	685.2	53.1	726	6	AX136544
11	680	52.7	680	6	CQ727837
12	622.2	48.2	2581	9	BC031198
13	620.6	48.1	2481	9	BC066137
14	620.6	48.1	2481	9	BC066160
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18	353.2	27.4	1166	5	CR523601

19	311.4	24.1	2544	9	BC024679
20	239.4	18.5	171279	14	AC036185
21	219.6	17.0	264263	14	AC161946
22	178.2	13.8	197543	9	AC124129
23	178.2	13.8	248595	14	AC158789
24	174.2	13.5	1383	5	BC056115
25	172.8	13.4	230845	14	AC098415
26	172.6	13.4	162609	8	AC108022
27	172.4	13.4	1295	5	BC070680
28	145.2	11.2	2132	5	BC088389
29	112	8.7	70892	14	AC027533
30	111	8.6	181070	14	AC119888
31	81.2	6.3	1764	9	BC089946
32	78	6.0	2090	9	BC038500
33	75.6	5.9	1881	5	BC075421
34	75.4	5.8	157691	5	AL935143
35	72.6	5.6	827	6	BD125145
36	72.6	5.6	827	6	BD126407
37	72.6	5.6	827	6	CQ780436
38	72.6	5.6	827	6	CQ781698
39	72.6	5.6	1086	6	CQ730722
40	72.6	5.6	1409	6	BD127456
41	72.6	5.6	1409	6	CQ783064
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#### ALIGNMENTS

#### RESULT 1

BD192961

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BD192961 1603 bp DNA linear PAT 17-JUL-2003  
207 human secreted proteins.  
BD192961  
BD192961.1 GI:33002700  
JP 2002516573-A/55.  
synthetic construct  
synthetic construct  
Other sequences; artificial sequences.  
1 (bases 1 to 1603)  
Young, P., Greene, J.M., Ferrie, A.M., Ruben, S.M., Rosen, C.A.,  
Hu, J.S., Olsen, H.S., Ebner, R., Brewer, L.A., Moore, P.A., Shi, Y.,  
Florence, C., Florence, K., Lafleur, D.W., Ni, J., Fan, P., Wei, Y.F.,  
Dillon, P.J., Soppet, D.R., Li, Y., Ze, Z., Kyaw, H., Yu, G.L., Feng, P.,  
207 human secreted proteins  
Patent: JP 2002516573-A 55 04-JUN-2002;  
HUMAN GENOME SCIENCES INC  
PN JP 2002516573-A/55  
PD 04-JUN-2002  
PF 04-JUN-1998 JP 1999502815  
PR 06-JUN-1997 US 60/048915, 06-JUN-1997 US 60/048882 PR  
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06-JUN-1997 US 60/048900, 06-JUN-1997 US 60/048893 PR  
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06-JUN-1997 US 60/048917, 06-JUN-1997 US 60/048962 PR  
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06-JUN-1997 US 60/048875, 06-JUN-1997 US 60/048899 PR  
06-JUN-1997 US 60/048877, 06-JUN-1997 US 60/048963 PR  
05-SEP-1997 US 60/057651, 05-SEP-1997 US 60/057769 PR



Hominidae; Homo.

REFERENCE  
1  
AUTHORS  
Young, P., Greene, J.M., Ferrie, A.M., Ruben, S.M., Rosen, C.A.,  
Hu, J.S., Olsen, H.S., Ebner, R., Brewer, L.A., More, P.A., Shi, Y.,  
Florence, C., Florence, K., Lapleur, D.W., Ni, J., Fan, P., Wei, Y.F.,  
Fischer, C.L., Soppet, D.R., Li, Y., Zeng, Z., Kyaw, H., Yu, G.L.,  
Feng, P., Dillon, P.J., Endress, G.A. and Carter, K.C.  
207 human secreted proteins  
Patent: EP 1428833-A 56 16-JUN-2004;  
Human Genome Sciences, Inc. (US)

TITLE  
JOURNAL  
FEATURES  
Location/Qualifiers  
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Query Match 92.7%; Score 1196.6; DB 6; Length 1603;  
Best Local Similarity 97.9%; Pred. No. 1.8e-276;  
Matches 1268; Conservative 5; Mismatches 13; Indels 9; Gaps 6;  
Qy 1 CCCAGCGCTCCGGCCCGCGGCTCGGAGCGGCTCTGCGCTCCGAGCGCGGAGCGGC 60  
Db 7 CCCAGCGCTCCGGCCCGCGGCTCGGAGCGGCTCTGCGCTCCGAGCGCGGAG--CGCG 64  
Qy 61 GCCCTGGGGAGGAGGCGGAGCGGAGCGGCGGAGCGGCTCCGCGGCGACCTCCGGGTCG 120  
Db 65 GCCCTGGGGAGGAGGCGGAG--CGAGCGGCGAGTGCTCCGCGGCGACCTCCGGGTCG 123  
Qy 121 CCGTCTAGCGCTGCTCTCTCTGTTGGGAGCGCGCTGAGTTCGCGCTGGTGGCTCCGG 180  
Db 124 CCGTCTAGCGCTGCTCTCTCTGTTGGGAGCGCGCTGAGTTCGCGCTGGTGGCTCCGG 183  
Qy 181 ACAATGGGAGCGCGGACATTCGACATCCAGAACAGAGACGACCGCTGCGCCAGCAACG 240  
Db 184 ACAATGGGAGCGCGGACATTCGACATCCAGAACAGAGACGACCGCTGCGCCAGCAACG 243  
Qy 241 ATACTGGGAATGGACACCCAGACATATATTGATAGCGCGCTTGCCTGTGTTCTTATCA 300  
Db 244 ATACTGGGAATGGACACCCAGACATATATTGATAGCGCGCTTGCCTGTGTTCTTATCA 303  
Qy 301 TGGGTCTCTTTGGCGTCTCTATTTGCCACCTGC---TTAAGAAGAAAGGCTATCGTTGTA 357  
Db 304 TGGGTCTCTTTGGCGTCTCTATTTGCCACCTGC---TTAAGAAGAAAGGCTATCGTTGTA 363  
Qy 358 CAACAGAGACGAGCAGATATCGAAGAGG--AAAGGTTGAAAGATAGAAATGAATGAC 416  
Db 364 CAACAGAGACGAGCAGATATCGAAGAGGTTGAAAGATAGAAATGAATGAC 423  
Qy 417 AGTGTGAATGAACAGTGACACTGTTGGGCAATCGTCCACTACATCATGAAATGAA 476  
Db 424 AGTGTGAATGAACAGTGACACTGTTGGGCAATCGTCCACTACATCATGAAATGAA 483  
Qy 477 GCGAATGCTGATGCTTTAAAGCGATGTAGCAGATAACAGCTGTATGATCTGAAAGC 536  
Db 484 GCGAATGCTGATGCTTTAAAGCGATGTAGCAGATAACAGCTGTATGATCTGAAAGC 543  
Qy 537 CCGGTGACCCCGACACACCGAGGAGCCCGCAGTGAGTCTCTGGGCTTTGTCAACAGGG 596  
Db 544 CCGGTGACCCCGACACACCGAGGAGCCCGCAGTGAGTCTCTGGG--CTTTGTCAACAGGG 602  
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Db 603 GGGAGCCGAGGAGACGACTGTTGGGCCATCATCTGCAATAGCGTGGGCGGTGTTGTCGAG 662

Qy 657 AGGATGTGTGTCTATCGGTGTAGGCACAAGCGGTGGCACTTTTATAAGCCCACTAACAG 716  
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Qy 777 AGAGTTACAAAGTGGAGCACAAGTCAAAACAGAAAGGAAACGAGAGAGCCTGATGCTGTT 836  
Db 783 AGAGTTACAAAGTGGAGCACAAGTCAAAACAGAAAGGAAACGAGAGAGCCTGATGCTGTT 842  
Qy 837 AGTGGGCTGAACCGTCAATGGGAGGTGCGCGCAACACCTGTGAAGAGAGAGAGCAGT 896  
Db 843 AGTGGGCTGAACCGTCAATGGGAGGTGCGCGCAACACCTGTGAAGAGAGAGAGCAGT 902  
Qy 897 GGCACAGAGTAGCAGGTGAGCGGTGTTTGGTGCACATTTGGGGGCGAGGTGGTCAGGGT 956  
Db 903 GGCACAGAGTAGCAGGTGAGCGGTGTTTGGTGCACATTTGGGGGCGAGGTGGTCAGGGT 962  
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RESULT 3  
BD123581  
LOCUS  
DEFINITION  
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ACCESSION  
BD123581  
VERSION  
BD123581.1 GI:23218526  
KEYWORDS  
JP 2002017376-A/90.  
SOURCE  
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ORGANISM  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.  
REFERENCE  
1 (bases 1 to 1320)  
Ota, T., Isogai, T., Nishikawa, T., Kawai, Y., Sugiyama, T. and  
Hayashi, K.  
TITLE  
Secretory protein or membrane protein  
JOURNAL  
Patent: JP 2002017376-A 90 22-JAN-2002;  
HELIX RESEARCH INSTITUTE  
COMMENT  
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PN JP 2002017376-A/90  
PD 22-JAN-2002  
PF 07-JUL-2000 JP 2000253173  
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SUGIYAMA,  
PI KOJI HAYASHI  
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10,



PC	C12P21/02,C12Q1/69//C12P21/08,C12N15/00,C12N5/00	CC
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FT	Key Location/Qualifiers	
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DEFINITION Sequence 179 from Patent EP1067182.  
ACCESSION AXI36257  
VERSION AXI36257.1 GI:14272663

SOURCE  
ORGANISM Homo sapiens (human)  
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
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REFERENCE 1  
AUTHORS Ota, T., Isogai, T., Nishikawa, T., Kawai, Y., Sugiyama, T. and Hayashi, K.  
TITLE Secretory protein or membrane protein  
JOURNAL Patent: EP 1067182-A 179 10-JAN-2001;  
Helix Research Institute (JP)

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ORIGIN

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Best Local Similarity 99.4%; Pred. No. 3.2e-205;  
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Qy 904 AGTAGCAG 911  
Db 901 AGTAGCAG 908

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LOCUS AK075468 1320 bp mRNA linear PRI 09-JUL-2005  
DEFINITION Homo sapiens cDNA P5EC0162 fis, clone PLACB1009772.



Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullany, S.J., Bosak, S.A., McSwan, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Kettman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickinson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E., Schnerch, A., Schein, J.R., Jones, S.J., and Marra, M.A.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

12477932

2 (bases 1 to 1364)

Strausberg, R.

Direct Submission

Submitted (01-NOV-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA

NIH-MGC Project URL: <http://mgc.nci.nih.gov>

Contact: MGC help desk

Email: [cgaps-remail.nih.gov](mailto:cgaps-remail.nih.gov)

Tissue Procurement: Life Technologies, Inc.

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

Genome Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305

Web site: <http://www.sbgc.stanford.edu>

Contact: (Dickson, Mark) [mcdpaxil.stanford.edu](mailto:mcdpaxil.stanford.edu)

Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Series: IRAC Plate: 88 Row: n Column: 22.

Location/Qualifiers

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SECRETORY protein or membrane protein.

BD123784

BD123784.1 GI:23218729

JP 2002017376-A/293.

Homo sapiens (human)

ORGANISM

Homo sapiens

REFERENCE

1 (bases 1 to 726)

Ota, T., Isogai, T., Nishikawa, T., Kawai, Y., Sugiyama, T. and Hayashi, K.

SECRETORY protein or membrane protein

Patent: JP 2002017376-A 293 22-JAN-2002;



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DEFINITION Sequence 466 from Patent EP1067182.
ACCESSION AX136544
VERSION AX136544.1 GI:14272948
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ORGANISM Homo sapiens
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REFERENCE 1
AUTHORS Ota,T., Isogai,T., Nishikawa,T., Kawai,Y., Sugiyama,T. and
Hayashi,K.
TITLE Secretory protein or membrane protein
JOURNAL Patent: EP 1067182-A 466 10-JAN-2001;
Helix Research Institute (JP)
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Db 721 AGAG 724

RESULT 11
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DEFINITION Sequence 13771 from Patent WO02068579.
ACCESSION CQ727837
VERSION CQ727837.1 GI:42294978
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Venter,C.J., Adams,M.C., Li,P.W. and Myers,E.W.
TITLE Kits, such as nucleic acid arrays, comprising a majority of
humanexons or transcripts, for detecting expression and other uses
thereof
JOURNAL Patent: WO 02068579-A 13771 06-SEP-2002;
PE Corporation (NY) (US)
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Best Local Similarity 100.0%; Pred. No. 2.2e-152;
Matches 680; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 13
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LOCUS
DEFINITION
Mus musculus expressed sequence AA536743, mRNA (cDNA clone
MGC:76429 IMAGE:30012041), complete cds.
ACCESSION
BC066137
VERSION
BC066137.1 GI:42490934
KEYWORDS
MGC.
SOURCE
Mus musculus (house mouse)
ORGANISM
Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muroidae; Murinae; Mus.
1 (bases 1 to 2481)
Strauberg RU, Feirgold EA, Grouse LH, Derge JG, Klausner RD,
Collins FS, Wagner L, Shenmen CM, Schuler GD, Altschul SF, Zeeberg
B, Buetow KH, Schaefer CF, Bhat NK, Hopkins RF, Jordan H, Moore T,
Max SI, Wang J, Hsieh F, Diatchenko L, Marusina K, Farmer AA, Rubin
GM, Hong L, Stapleton M, Soares MB, Bonaldo MP, Casavant TL,
Scheetz TE, Brownstein MJ, Usdin TB, Toshiyuki S, Carninci P,
Prange C, Raha SS, Loquellano NA, Peters GU, Abramson RD, Mullaly
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Villalón DK, Muzny DM, Sodergren EJ, Lu X, Gibbs RA, Fahy J,
Helton E, Kettman M, Madan A, Rodriguez S, Sanchez A, Whiting M,
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Schmutz J, Myers RM, Butterfield YS, Krzywinski MI, Skalska U,
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CONSRTM
TITLE
JOURNAL
PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL
REMARK
COMMENT
Snaill DE, Schmerch A, Schein JE, Jones SJ and Marra MA.
Mammalian Gene Collection Program Team
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
12477932
2 (bases 1 to 2481)
Director MGC Project.
Direct Submission
Submitted (03-FEB-2004) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-rc@mail.nih.gov
Tissue Procurement: Minoru Ko
cDNA Library Preparation: Yulan Piao and Minoru Ko (National
Institute on Aging, NIH: http://lgsun.grc.nia.nih.gov/cDNA/)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Sequencing Group at the Stanford Human Genome
Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: http://www-shgc.stanford.edu
Contact: (Dickson, Mark) mcd@paxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
R. M.
Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Series: IRAC Place: 144 Row: a Column: 18.
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Best Local Similarity 80.7%; Pred. No. 4.7e-138;
Matches 738; Conservative 0; Mismatches 174; Indels 3; Gaps 1;
QY 14 CCGCGCGGCTCCGAGCGGCTCTGCTTCCGAGCGGGACCGCGGCGCTCGGGGAGG 73
Db 65 CCGCGGACGCTCGAGCTGCACCGTCTACCGCCGCGGACGCGCGGCGCGGCGGAGG 124
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DEFINITION Mus musculus expressed sequence AA536743, mRNA (cdna clone  
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ACCESSION BC066160.1 GI:42490882  
VERSION BC066160  
KEYWORDS Mus musculus  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;  
Sciurognathi; Muridae; Murinae; Mus.  
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Strausberg RL, Feingold EA, Grouse LH, Derge JG, Klausner RD,  
Collins FS, Wagner CW, Shenmen CM, Schuler GD, Altschul SF, Zeeberg  
B, Buetow KH, Schaefer CF, Bhat NK, Hopkins RP, Jordan H, Moore T,

Max SI, Wang J, Hsieh F, Diatchenko L, Marusina K, Farmer AA, Rubin  
GM, Hong L, Stapleton M, Soares MB, Bonaldo MP, Casavant TL,  
Schetz TE, Brownstein MJ, Usdin TB, Toshiyuki S, Carninci P,  
Prange C, Raha SS, Loquellano NA, Peters GU, Abramson RD, Mullahy  
SU, Bosak SA, McEwan PJ, McKernan KJ, Malek JA, Gunaratne PH,  
Richards S, Worley KC, Hale S, Garcia AM, Gay LJ, Hulyk SW,  
Villalon DK, Muzny DM, Sodergren EJ, Lu X, Gibbs RA, Fahey J,  
Helton E, Kettman M, Madan A, Rodriguez S, Sanchez A, Whiting M,  
Madan A, Young AC, Shevchenko Y, Bouffard GG, Blakesley RW,  
Touhman JW, Green ED, Dickson MC, Rodriguez AC, Grimwood J,  
Schmutz J, Myers RM, Butterfield YS, Krzywinski MI, Skalska U,  
Smialius DE, Schnerch A, Schein JE, Jones SJ and Marra MA.  
Mammalian Gene Collection Program Team  
Generation and initial analysis of more than 15,000 full-length  
human and mouse cDNA sequences  
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)  
12477932  
2 (bases 1 to 2481)  
Director MGC Project.  
Direct Submission  
Submitted (03-FEB-2004) National Institutes of Health, Mammalian  
Gene Collection (MGC), Cancer Genomics Office, National Cancer  
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,  
USA  
NIH-MGC Project URL: <http://mgc.nci.nih.gov>  
Contact: MGC help desk  
Email: [gcgaps-remail.nih.gov](mailto:gcgaps-remail.nih.gov)  
Tissue Procurement: Minoru Ko  
cDNA Library Preparation: Yulan Piao and Minoru Ko (National  
Institute on Aging, NIH: <http://lgaun.grc.nia.nih.gov/cDNA/>)  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Sequencing Group at the Stanford Human Genome  
Center, Stanford University School of Medicine, Stanford, CA 94305  
Web site: <http://www-shgc.stanford.edu>  
Contact: (Dickson, Mark) [mcd@paxil.stanford.edu](mailto:mcd@paxil.stanford.edu)  
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,  
R. M.

Clone distribution: MGC clone distribution information can be found  
through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>  
Series: IRAC Plate: 144 Row: a Column: 19  
This clone was selected for full length sequencing because it  
passed the following selection criteria: matched mRNA gi: 22122334.

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gene  
CDS

ORIGIN



Query Match 48.1%; Score 620.6; DB 9; Length 2481;  
Best Local Similarity 80.7%; Pred. No. 4.7e-138;  
Matches 738; Conservative 0; Mismatches 174; Indels 3; Gaps 1;

QY 14 CCGCCGCTCCGAGCGGCTCTCCCTTCCGAGCGGGAGCGCGCCCTGGGGGAGG 73  
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DB 965 GCAGCTGTGCTGCTTT 979

RESULT 15

AC027607/c

LOCUS

DEFINITION Homo sapiens BAC clone RP11-36B15 from 4, complete sequence.

161070 bp DNA linear

PRI 03-JUL-2002

ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISMAC027607  
AC027607.7 GI:21686941  
HTC.REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
PUBMEDHomo sapiens (human)  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.  
Sulston, J.E. and Waterston, R.  
Toward a complete human genome sequence  
Genome Res. 8 (11), 1097-1108 (1998)  
9847074REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
PUBMED2 (bases 1 to 161070)  
Cordes, M., Cotton, M., Bradshaw-Cordum, H. and Boyer, E.  
The sequence of Homo sapiens BAC clone RP11-36B15  
Unpublished (2001)  
3 (bases 1 to 161070)  
Waterston, R.H.  
Direct Submission  
Submitted (30-MAR-2000) Genome Sequencing Center, Washington  
University School of Medicine, 4444 Forest Park Parkway, St. Louis,  
MO 63108, USA  
4 (bases 1 to 161070)  
Waterston, R.  
Direct Submission  
Submitted (03-JUL-2002) Department of Genetics, Washington  
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA  
On Jul 3, 2002 this sequence version replaced gi:153321552.REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
PUBMEDCenter: Washington University Genome Sequencing Center  
Center code: WUGSC  
Web site: <http://genome.wustl.edu/gsc>  
Contact: [sapiens@watson.wustl.edu](mailto:sapiens@watson.wustl.edu)  
----- Summary Statistics -----  
Center project name: H\_NH0036B15REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
PUBMEDCenter: Washington University Genome Sequencing Center  
Center code: WUGSC  
Web site: <http://genome.wustl.edu/gsc>  
Contact: [sapiens@watson.wustl.edu](mailto:sapiens@watson.wustl.edu)  
----- Summary Statistics -----  
Center project name: H\_NH0036B15

## COMMENT

Center: Washington University Genome Sequencing Center  
Center code: WUGSC  
Web site: <http://genome.wustl.edu/gsc>  
Contact: [sapiens@watson.wustl.edu](mailto:sapiens@watson.wustl.edu)  
----- Summary Statistics -----  
Center project name: H\_NH0036B15

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

## MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

## SOURCE INFORMATION:

The RP11-11 human BAC library was made from the blood of one male donor, as described by Osoegawa, K., Woon, P.Y., Zhao, B., Frengen, E., Tatenno, M., Catanese, J.J. and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at <http://www.chori.org>  
VECTOR: pBac3.6

## NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the left is RP11-562N2, 2000 bp overlap; the clone sequenced to the right is RP11-9D8, 2000 bp overlap. Actual start of this clone is at base position 1 of RP11-36B15; actual end is at base position 161070 of RP11-36B15.

A transposon was identified in the vector portion of the clone.

There is an unresolved tandem repeat from base 71075 to 71587.

## FEATURES

## Source

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Matches 525; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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QY 818 GAGAACCTGATCTCTGTTAGTGGGCTGAAACCGTCAATGGGGAGGTGCGGCACACC 877

DB 117410 GAGAACCTGATCTCTGTTAGTGGGCTGAAACCGTCAATGGGGAGGTGCGGCACACC 117351

QY 878 TGTGAAGAGAGAACCGCAGTGGCAGAGTAGCAGGTGAGCCGTGGTGTGGTGACATTGG 937

DB 117350 TGTGAAGAGAGAACCGCAGTGGCAGAGTAGCAGGTGAGCCGTGGTGTGGTGACATTGG 117291

QY 938 GGGCAGAGTGGTCCAGGGTGAGGAGAGGTACTTTGGAGCCTCCACAGTGTCTGTGGCAGCA 997

DB 117290 GGGCAGAGTGGTCCAGGGTGAGGAGAGGTACTTTGGAGCCTCCACAGTGTCTGTGGCAGCA 117231

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Job time : 6923 secs

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XX WPI; 2002-171948/22.  
DR P-PSDB; AAE20962.  
XX  
PT Two novel proteins, TR21 and TR22, which are members of the tumor  
PT necrosis factor receptor, useful for the diagnosis and treatment of  
PT immune disorders, cancer, cardiovascular disorders.  
XX  
PS Claim 1; Fig 1; 248pp; English.  
XX  
CC The present invention relates to novel human tumour necrosis factor (TNF)  
CC receptors, TR21 and TR22 and polynucleotides encoding them. Sequences of  
CC the invention are useful in the diagnosis, treatment and prevention of  
CC cancers (e.g., cancers of the adrenal gland, bone, urogenital or bone  
CC marrow, in particular breast and ovarian cancer), immune disorders (e.g.,  
CC autoimmune haemolytic anaemia, rheumatoid arthritis, allergies, Addison's  
CC disease, ulcerative colitis), cardiovascular disorders (e.g., myocardial  
CC ischaemia), wound healing, neurological diseases (e.g., cerebral anoxia,  
CC epilepsy) and infectious diseases such as viral, bacterial, fungal and  
CC parasitic infections. They are also useful in gene therapy. The present  
CC sequence is a cDNA encoding human TR21 protein  
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DT 01-MAR-1999 (first entry)  
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diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;  
developmental abnormality; foetal deficiency; blood; allergy; renal; ds;  
immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;  
inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;  
cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;  
osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;  
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Homo sapiens.  
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XX WO9854963-A2.  
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XX 04-JUN-1998; 98WO-US011422.  
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PR 18-DEC-1997; 97US-0070923P.
XX PA (HUMA-) HUMAN GENOME SCI INC.

XX Young P, Greene JM, Ferrie AM, Ruben SM, Rosen CA, Hu J,
PI Olsen HS, Ebner R, Brewer LA, Moore PA, Shi Y, Florence C,
PI Florence K, Lafleur DW, Ni J, Fan P, Wei Y, Fischer CL, Soppet DR,
PI Li Y, Zeng Z, Kyaw H, Yu G, Feng P, Dillon PJ, Endress GA,
PI Carter KC,
XX WPI; 1999-059865/05.
DR P-PSDB; AAW88579.
XX New isolated human genes and the secreted polypeptides they encode -
PT useful for diagnosis and treatment of e.g. cancers, neurological
PT disorders, immune diseases, inflammation or blood disorders.
XX Claim 4; Page 315-316; 772pp; English.
XX The invention relates to nucleic acid sequences (AAV84411 to AAV84633)
XX encoding human secreted proteins (AAW88534 to AAW88756). The secreted
XX protein gene sequences are deposited with the ATCC under deposit numbers
XX ATCC 97979, 97974, 97975, 97976, 97977, 209007, 209008, 209009, 209010,
XX 209011, 209080, 209081, 209082, 209083, 209084, 209085, 209511. Host
XX cells comprising recombinant vectors containing the nucleic acid
XX sequences are used for the recombinant production of the secreted
XX proteins. The polynucleotide and amino acid sequences are useful for are
XX useful for preventing, treating or ameliorating medical conditions e.g.
XX by protein or gene therapy. Pathological conditions can be also diagnosed
XX by determining the amount of the new polypeptides in a sample or by
XX determining the presence of mutations in the new polynucleotides.
XX Specific uses are described for each of the polynucleotides, based on
XX which tissues they are most highly expressed in, and include developing
XX products for the diagnosis or treatment of cancer, neurodegenerative
XX disorders, developmental abnormalities and foetal deficiencies, blood
XX disorders, tumours, leukemias, diseases of the immune system, autoimmune
XX diseases, hepatic and renal disease, lymphomas, inflammation, allergies,
XX ischemic shock, Alzheimer's and cognitive disorders, schizophrenia,
XX retinosis, prostate diseases, obesity, disorders involving osteoclasts
XX such as osteoporosis, arthritis or malignancies, diseases of testes, lung
XX or thymus, digestive/endocrine disorders, infections and AIDS. The
XX polypeptides are also useful for identifying their binding partners. The
XX present sequence represents a gene encoding a human secreted protein (see
XX descriptor line for gene number and clone identification)
XX SQ Sequence 1603 BP; 416 A; 356 C; 449 G; 371 T; 0 U; 11 Other;

Query Match 92.7%; Score 1196.6; DB 2; Length 1603;
Best Local Similarity 97.9%; Pred. No. 0;
Matches 1268; Conservative 5; Mismatches 13; Indels 9; Gaps 6;

Qy 1 CCCACGGCTCGGCCCCCGGCTCCGAGCGGCTCTCGCTTCCGAGCGCGGAGCGGCG 60
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Db 304 TGGGTCTCTTTGGCGTCTCTATTTGCCACCTGC--TTAAGAAGAAAGGCTATCGTTCTTA 363

Qy 358 CAACAGAAGCAGACGAAGATATCGAAGAGG--AAAAGGTTGAAAAGATAGATTGAATGAC 416
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[illegible]

XX	Human; secreted protein; immunomodulatory; antisclerotic; anti-HIV;
KW	dermatological; immunosuppressive; antiinflammatory; immunostimulant;
KW	cytostatic; cardiatic; vascular; anti-angiogenic; ophthalmological;
KW	neuroprotective; nontropic; anticonvulsant; antialzheimers; vulnerary;
KW	anti-parkinsonian; antimicrobial; gene therapy; vaccine; immune disorder;
KW	multiple sclerosis; systemic lupus erythematosus; HIV infection; cancer;
KW	human immunodeficiency virus; hyperproliferative disorder; wound healing;
KW	Gaucher's disease; cardiovascular disease; Scimitar syndrome; chemotaxis;
KW	Chaga's cardiomyopathy; coronary arteriosclerosis; angiogenic disorder;
KW	corneal graft neovascularisation; diabetic retinopathy; regeneration;
KW	neurological disorder; Huntington's chorea; Alzheimer's disease;
KW	Parkinson's disease; infectious disease; ss.
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XX	Homo sapiens.
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XX	WO200162891-A2.
XX	
XX	30-AUG-2001.
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XX	21-FEB-2001; 2001WO-US005614.
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XX	24-FEB-2000; 2000US-0184836P.
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PR	29-MAR-2000; 2000US-0193170P.
XX	
XX	(HUMA-) HUMAN GENOME SCI INC.
PA	
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XX	Ni J, Ebner R, Lafleur DW, Moore PA, Olsen HS, Rosen CA;
PI	Ruben SM, Soppet DR, Young PE, Shi Y, Florence KA, Wei Y;
PI	Florence C, Hu J, Li Y, Kyaw H, Fischer CL, Ferrie AM, Fan P;
PI	Feng P, Endress GA, Dillon PJ, Carter KC, Brewer LA, Yu G, Zeng Z;
PI	Greene JW;
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XX	WPI: 2001-625724/72.
DR	
DR	P-PSDB; ABB50346.
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PT	Nucleic acids encoding 207 human secreted polypeptides, useful for
PT	preventing, diagnosing and/or treating, e.g. cancers, Parkinson's disease
PT	and diabetic retinopathy.

[illegible]



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Qy 897 GGACACAGATGACAGGTGAGCGCTGTTTGGTGACATTTGGGGCAGAGTGGTCAGGGT 956  
Db 903 GGACACAGATGACAGGTGAGCGCTGTTTGGTGACATTTGGGGCAGAGTGGTCAGGGT 962  
Qy 957 GAGGAGAGGTACTTGGAGCCTCCAGGTGCTGTGGCAGCATAGGAATGGTATTGACAG 1016  
Db 963 GAGGAGAGGTACTTGGAGCCTCCAGGTGCTGTGGCAGCATAGGAATGGTATTGACAG 1022  
Qy 1017 GGAAGTGGGAGGCTTCTTGGACCCAGGAAGACTGAGGGGACTGAAACATGATTTACTTG 1076  
Db 1023 GGAAGTGGGAGGCTTCTTGGACCCAGGAAGACTGAGGGGACTGAAACATGATTTACTTG 1082  
Qy 1077 TCTCCCTAGAGCTTCTTGAAGAGTCAACAACTTAGTGCTCCAGGGGCTTGGCTGT 1136  
Db 1083 TCTCCCTAGAGCTTCTTGAAGAGTCAACAACTTAGTGCTCCAGGGGCTTGG-CTGT 1141  
Qy 1137 GTGATAATGAGATAGAGGATTACTTGTGAGGCAATGTGGCATGTGGGATTTGTGGCA 1196

Db 1142 GTGATAATGAGATAGAGGATTACTTGTGAGGCAATGTGGCATGTGGGATTTGGCA 1201  
Qy 1197 ACTAGAATTACATCACCCACCATATAGGGCTTGCAATTACCACGAGGAGCAAAAGCACCTA 1256  
Db 1202 ACTAGAATTACATCACCCACCATATAGGGCTTGCAATTACCACGAGGAGCAAAAGCACCTA 1261  
Qy 1257 GTGTGTGTCATCTTTTACGCAAAAAA 1291  
Db 1262 GTGTGTGTCATCTTTACGCAAAAAAAGACAAA 1296  
RESULT 4.  
ACH04740  
ID ACH04740 standard; cDNA; 1603 BP.  
XX ACH04740;  
XX AC ACH04740;  
XX AC ACH04740;  
XX 02-OCT-2003 (first entry)  
XX Novel human secreted protein #46 cDNA.  
DE Human; ss; gene therapy; autoimmune disorder; multiple sclerosis; cancer;  
KW systemic lupus erythematosus; haematopoietic cell disorder; allergy;  
KW agammaglobulinaemia; ataxia telangiectasia; blood coagulation disorder;  
KW afibrinogenaemia; thrombocytopenia; graft-versus-host disease; arthritis;  
KW inflammatory condition; ischaemia-reperfusion injury; infectious disease;  
KW hyperproliferative disorder; purpura; viral infection; regeneration;  
KW bacterial infection; ulcer; Alzheimer's disease; gene.  
XX Homo sapiens.  
XX OS  
XX US2003065160-A1.  
XX 03-APR-2003.  
XX 07-DEC-2001; 2001US-00004860.  
PR 06-JUN-1997; 97US-0048875P.  
PR 06-JUN-1997; 97US-0048876P.  
PR 06-JUN-1997; 97US-0048877P.  
PR 06-JUN-1997; 97US-0048878P.  
PR 06-JUN-1997; 97US-0048880P.  
PR 06-JUN-1997; 97US-0048881P.  
PR 06-JUN-1997; 97US-0048882P.  
PR 06-JUN-1997; 97US-0048883P.  
PR 06-JUN-1997; 97US-0048884P.  
PR 06-JUN-1997; 97US-0048885P.  
PR 06-JUN-1997; 97US-0048892P.  
PR 06-JUN-1997; 97US-0048893P.  
PR 06-JUN-1997; 97US-0048894P.  
PR 06-JUN-1997; 97US-0048895P.  
PR 06-JUN-1997; 97US-0048896P.  
PR 06-JUN-1997; 97US-0048897P.  
PR 06-JUN-1997; 97US-0048898P.  
PR 06-JUN-1997; 97US-0048899P.  
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PR 06-JUN-1997; 97US-0048901P.  
PR 06-JUN-1997; 97US-0048915P.  
PR 06-JUN-1997; 97US-0048916P.  
PR 06-JUN-1997; 97US-0048917P.  
PR 06-JUN-1997; 97US-0048949P.  
PR 06-JUN-1997; 97US-0048962P.  
PR 06-JUN-1997; 97US-0048963P.  
PR 06-JUN-1997; 97US-0048964P.  
PR 06-JUN-1997; 97US-0048970P.  
PR 06-JUN-1997; 97US-0048971P.  
PR 06-JUN-1997; 97US-0048972P.  
PR 06-JUN-1997; 97US-0048974P.  
PR 06-JUN-1997; 97US-0049019P.  
PR 06-JUN-1997; 97US-0049020P.  
PR 06-JUN-1997; 97US-0049373P.  
PR 06-JUN-1997; 97US-0049374P.

PR 06-JUN-1997; 97US-0049375P.  
PR 05-SEP-1997; 97US-0057584P.  
PR 05-SEP-1997; 97US-0057627P.  
PR 05-SEP-1997; 97US-0057628P.  
PR 05-SEP-1997; 97US-0057629P.  
PR 05-SEP-1997; 97US-0057634P.  
PR 05-SEP-1997; 97US-0057635P.  
PR 05-SEP-1997; 97US-0057642P.  
PR 05-SEP-1997; 97US-0057643P.  
PR 05-SEP-1997; 97US-0057644P.  
PR 05-SEP-1997; 97US-0057645P.  
PR 05-SEP-1997; 97US-0057646P.  
PR 05-SEP-1997; 97US-0057647P.  
PR 05-SEP-1997; 97US-0057648P.  
PR 05-SEP-1997; 97US-0057649P.  
PR 05-SEP-1997; 97US-0057650P.  
PR 05-SEP-1997; 97US-0057651P.  
PR 05-SEP-1997; 97US-0057654P.  
PR 05-SEP-1997; 97US-0057661P.  
PR 05-SEP-1997; 97US-0057662P.  
PR 05-SEP-1997; 97US-0057666P.  
PR 05-SEP-1997; 97US-0057667P.  
PR 05-SEP-1997; 97US-0057668P.  
PR 05-SEP-1997; 97US-0057760P.  
PR 05-SEP-1997; 97US-0057761P.  
PR 05-SEP-1997; 97US-0057762P.  
PR 05-SEP-1997; 97US-0057763P.  
PR 05-SEP-1997; 97US-0057764P.  
PR 05-SEP-1997; 97US-0057765P.  
PR 05-SEP-1997; 97US-0057766P.  
PR 05-SEP-1997; 97US-0057776P.  
PR 05-SEP-1997; 97US-0057777P.  
PR 05-SEP-1997; 97US-0057778P.  
PR 18-DEC-1997; 97US-0070923P.  
PR 04-JUN-1998; 98WO-US011422.  
PR 15-JUL-1998; 98US-0092921P.  
PR 30-JUL-1998; 98US-0094657P.  
PR 04-DEC-1998; 98US-0020525P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Young P, Greene JM, Ruben SM, Rosen CA, Hu J;  
PI Olsen HS, Ebner R, Brewer LA, Moore PA, Shi Y, Florence C;  
PI Florence K, Lafleur DW, Ni J, Fan P, Wei Y, Fischer CL, Soppet DR;  
PI Li Y, Zeng Z, Kyaw H, Yu G, Peng P, Dillon PJ, Endress GA,  
PI Carter KC;  
XX WPI; 2003-540804/51.  
DR P-PSDB; ABO44603.  
XX  
XX New isolated protein, useful for preparing a composition for diagnosing  
PT or treating cancer, inflammatory, immune or infectious diseases.  
XX  
XX Example 1; SEQ ID NO 56; 172pp; English.  
XX  
XX The invention relates to an isolated HEMAB80 protein. The protein is  
CC useful for preparing a composition for diagnosing or treating autoimmune  
CC disorders e.g. multiple sclerosis and systemic lupus erythematosus;  
CC haematopoietic cell disorders e.g. agammaglobulinaemia and ataxia  
CC telangiectasia; blood coagulation disorders e.g. afibrinogenemia and  
CC thrombocytopenia; allergy; graft-versus-host disease; inflammatory  
CC conditions e.g. ischaemia-reperfusion injury and arthritis;  
CC hyperproliferative disorders e.g. cancer and purpura; infectious disease  
CC e.g. viral infection and bacterial infection. The polynucleotide or  
CC protein can be used to regenerate damaged tissue e.g. ulcers and  
CC Alzheimer's disease. The present sequence represents a novel human  
CC secreted protein cDNA. Note: The sequence data for this patent did not  
CC form part of the printed specification but was obtained in electronic  
CC format directly from USPTO at

CC seqdata.uspto.gov/sequence.html?DocID=20030065160  
XX  
SQ Sequence 1603 BP; 416 A; 356 C; 449 G; 371 T; 0 U; 11 Other;  
Query Match 92.7%; Score 1196.6; DB 9; Length 1603;  
Best Local Similarity 97.9%; Pred. No. 0;  
Matches 1268; Conservative 5; Mismatches 13; Indels 9; Gaps 6;  
Qy 1 CCCACGGCTCCGGCCCGCGCTCCGGAGCGGCTCTCCCTTCCGAGCGGGAGCGGGC 60  
Db 7 CCCACGGCTCCGGCCCGCGCTCCGGAGCGGCTCTCCCTTCCGAGCGGGAG--CCGC 64  
Qy 61 GCCCTGGGGAGAGAGGCGAAGCGAGCGCGCGATGGCTCCGCGGCACTCCCGGGTCCG 120  
Db 65 GCCCTGGGGAGAGAGGCGGAA--CGACGCGCGATGGCTCCGCGGCACTCCCGGGTCCG 123  
Qy 121 CCGTCTTAGCCGCTGCTCTTCTGGGAGCGCGCTGAGTTCGCCCTGCTGGCTCCGG 180  
Db 124 CCGTCTTAGCCGCTGCTCTTCTGGGAGCGCGCTGAGTTCGCCCTGCTGGCTCCGG 183  
Qy 181 ACAATGGGAGAGCGCGCAATTGCACTCCAGAACAGAGACGACCCCGTCGCCCAAGACG 240  
Db 184 ACAATGGGAGAGCGCGCAATTGCACTCCAGAACAGAGAGCGACCCCGTCGCCCAAGACG 243  
Qy 241 ATACTGGGAATGACACCCAGAAATATATTCATACGCGCTTGCTCTGTTTATCA 300  
Db 244 ATACTGGGAATGACACCCAGAAATATATTCATACGCGCTTGCTCTGTTTATCA 303  
Qy 301 TGGGTCTCTTTGGCGTCTCATTTGCCACCTGC---TTAAGAAAGAAAGGCTATCGTTGTA 357  
Db 304 TGGGTCTCTTTGGCGTCTCATTTNGCCAMCTNGCTTNAAGAGAAAGGCTATCGTTGTA 363  
Qy 358 CAACAGAGCAGAGCAAGATATCGAAGAGG--AAAGGTTGAAAGATAGAAATGAAC 416  
Db 364 CAACAGAGCAGAGCAAGATATCGAAGAGAAAGGTTGAAAGATAGAAATGAAC 423  
Qy 417 AGTGTGAATGAAACAGTGCACCTGTTGGCAATCGTCCACTACATCATCAAGAAATGAA 476  
Db 424 AGTGTGAATGAAACAGTGCACCTGTTGGCAATCGTCCACTACATCATCAAGAAATGAA 483  
Qy 477 GCGAATGCTGATGCTCTTAAAGGCGATGGTAGACAGATAACAGCCCTGTATGATCTCTGAAAGC 536  
Db 484 GCGAATGCTGATGCTCTTAAAGGCGATGGTAGACAGATAACAGCCCTGTATGATCTCTGAAAGC 543  
Qy 537 CCGTGACCCCGCAGACACAGAGGAGCCCGCAGTAGTCTCTGGGCCCTTTGTACACAGG 596  
Db 544 CCGTGACCCCGCAGACACAGAGGAGCCCGCAGTAGTCTCTGGG--CTTTGTACACAGG 602  
Qy 597 GGGACGCCAGGAAGCAGCTCTGTGGCCATCATCTGCATACGGTGGGCGGTGTTGTCGAG 656  
Db 603 GGGACGCCAGGAAGCAGCTCTGTGGCCATCATCTGCATACGGTGGGCGGTGTTGTCGAG 662  
Qy 657 AGGATGTGTGTCATCGGTGAGGCACAGCGGTGGCACTTTTATAAGCCCACTTAAACAAG 716  
Db 663 AGGATGTGTGTCATCGGTGAGGCACAGCGGTGGCACTTTTATAAGCCCACTTAAACAAG 722  
Qy 717 TCAGAGAGAGCAGACACAGCGCCCAAGGGAGGTACGGTCTCTTCTGTGTGGCAGATTT 776  
Db 723 TCAGAGAGAGCAGACACAGCGCCCAAGGGAGGTACGGTCTCTTCTGTGTGGCAGATTT 782  
Qy 777 AGAGTTACAAAGTGGAGCACAAGTCAACACAGAGAACGGAGAGCCCTGATGTCGTT 836  
Db 783 AGAGTTACAAAGTGGAGCACAAGTCAACACAGAGAACGGAGAGCCCTGATGTCGTT 842  
Qy 837 AGTGGGGCTGAAACCGTCAATGGGGAGGTCCCGGCAACACCTGTGAAGAGAGAACGCACT 896  
Db 843 AGTGGGGCTGAAACCGTCAATGGGGAGGTCCCGGCAACACCTGTGAAGAGAGAACGCACT 902  
Qy 897 GGACAGAGTAGCAGGTGAGCCCTGTTTGGTGAATTTGGGGGAGAGAGTGGTGCAGGGT 956  
Db 903 GGACAGAGTAGCAGGTGAGCCCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 962  
Qy 957 GAGGAGAGGTACTTGGAGGCTCCAGGTGCTGTGGCAGCATAGGAATGGTATTGTCAGAG 1016

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Db 963 GAGGAGAGGTTACCTGGAGCTCCAGGTGCTGTGGCAGCATAGGAATGGTAATTGCAG 1022
Qy 1017 GGAAGTGGAGAGCTTCTTCTTGACCCAGGAAGACTGAGGGGCACTGAAACATGATTACTTG 1076
Db 1023 GGAAGTGGAGAGCTTCTTCTTGACCCAGGAAGACTGAGGGGCACTGAAACATGATTACTTG 1082
Qy 1077 TCTGCCTAGAGCTTCTTGTAAAGAGTCAAACTTAGTGCCTCCAGGGGCTTGGCCTGT 1136
Db 1083 TCTGCCTAGAGCTTCTTGTAAAGAGTCAAACTTAGTGCCTCCAGGGGCTTGG-CTGT 1141
Qy 1137 GTGATAATGAGATAGAGGATTACTTGTGAGGCAATGGCATGGTGGGATTCTGGCAA 1196
Db 1142 GTGATAATGAGATAGAGGATTACTTGTGAGGCAATGGCATGGTGGGATTCTGGCAA 1201
Qy 1197 ACTAGAATTACATCACCCACCATATAGGGCTTGCAATTACCGAGGCGAGAAAGCACCTA 1256
Db 1202 ACTAGAATTACATCACCCACCATATAGGGCTTGCAATTACCGAGGCGAGAAAGCACCTA 1261
Qy 1257 GTGTGTCTGCATCTTCTTACGCAAAAAA 1291
Db 1262 GTGTGTCTGCATCTTCTTACGCAAAAAA 1296

RESULT 5
ACD44550
ID ACD44550 standard; cDNA; 1603 BP.
AC ACD44550;
XX
XX 10-SEP-2003 (first entry)
XX Human cDNA from novel secreted protein gene 46.
XX
XX Human; ss; gene; secreted protein; precerebellin-like protein;
KW neurodegenerative disorder; Huntington's disease; Alzheimer's disease;
KW Parkinson's disease; Huntington's disease; schizophrenia; mania;
KW dementia; paranoia; psychosis; autism; immune disorder; infection;
KW inflammation; allergy; liver disorder; hepatoblastoma; jaundice;
KW hepatitis; immunological disorder; AIDS; leukaemia; rheumatoid arthritis;
KW sepsis; acne; psoriasis; cancer.
XX
XX Homo sapiens.
XX
XX US6525174-B1.
XX
XX 25-FEB-2003.
XX
XX 04-DEC-1998; 98US-00205258.
XX
XX 06-JUN-1997; 97US-0048875P.
XX 06-JUN-1997; 97US-0048876P.
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XX 06-JUN-1997; 97US-0048880P.
XX 06-JUN-1997; 97US-0048881P.
XX 06-JUN-1997; 97US-0048882P.
XX 06-JUN-1997; 97US-0048883P.
XX 06-JUN-1997; 97US-0048884P.
XX 06-JUN-1997; 97US-0048885P.
XX 06-JUN-1997; 97US-0048889P.
XX 06-JUN-1997; 97US-0048892P.
XX 06-JUN-1997; 97US-0048893P.
XX 06-JUN-1997; 97US-0048894P.
XX 06-JUN-1997; 97US-0048895P.
XX 06-JUN-1997; 97US-0048896P.
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XX 06-JUN-1997; 97US-0048898P.
XX 06-JUN-1997; 97US-0048899P.
XX 06-JUN-1997; 97US-0048900P.
XX 06-JUN-1997; 97US-0048901P.
XX 06-JUN-1997; 97US-0048915P.
XX 06-JUN-1997; 97US-0048916P.
XX 06-JUN-1997; 97US-0048917P.

97US-0048949P.
97US-0048962P.
97US-0048963P.
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97US-0048970P.
97US-0048971P.
97US-0048972P.
97US-0048974P.
97US-0049019P.
97US-0049020P.
97US-0049373P.
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97US-0057777P.
97US-0057778P.
97US-0070923P.
98WO-US011422.
98US-0092921P.
98US-0094657P.

(HUMA-) HUMAN GENOME SCI INC.
XX
XX Young P, Greene JM, Ferrie AM, Ruben SM, Rosen CA, Hu J;
XX Olsen HS, Ebner R, Brewer LA, Moore PA, Shi Y, Florence C;
XX Florence K, Lafleur DW, Ni J, Fan P, Wei Y, Fischer CL, Soppet DR;
XX Li Y, Zeng Z, Kyaw H, Yu G, Feng P, Dillon PJ, Endress GA;
XX Carter KC;
XX
XX MPI: 2003-511926/48.
XX P-PSDB; ABO26083.
XX
XX New precerebellin-like protein, useful for diagnosing or treating
XX neurodegenerative and behavioral disorders, immune disorders, liver
XX disorders, and cancer.
XX
XX Example 1; SEQ ID NO 56; 156pp; English.
XX
XX The invention relates to an isolated protein comprising amino acid
XX residues 33-205 or 1-205 of a novel human secreted protein appearing as
```



Claim 1; SEQ ID NO 179; 609pp + Sequence Listing; English.

This invention relates to nucleic acid sequences AAF93744 - AAF93916 which encode human secretory or membrane proteins represented by AAB88317 - AAB88419. Included in the invention are primers AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used to isolate the cDNA sequences of the invention. The invention also includes methods for the production of antibodies directed against the proteins, and cDNA sequences, which can be used in vaccines. The polynucleotide sequences can be used in gene therapy. The polynucleotide sequences and the proteins they encode may be used in the prevention, treatment and diagnosis of diseases associated with inappropriate secretory protein/membrane protein expression. The nucleic acids and complementary sequences may also be used as DNA probes in diagnostic assays (e.g. polymerase chain reactions (PCR)) to detect and quantitate the presence of similar nucleic acid sequences in samples. They may also be used to study the expression and function of secretory proteins/membrane polypeptides and their role in metabolism. The polypeptides may be used as antigens in the production of antibodies against them and in assays to identify modulators (agonists and antagonists) of expression and activity. The antibodies and antagonists may also be used as therapeutic agents to down regulate expression and activity. The antibodies may also be used as diagnostic agents for detecting the presence of the polypeptides in samples (e.g. by enzyme linked immunosorbant assay (ELISA). Examples of diseases which may be treated include rheumatoid arthritis and diabetes

Sequence 1320 BP; 332 A; 359 C; 370 G; 259 T; 0 U; 0 Other;

Query Match 69.7%; Score 900; DB 5; Length 1320;  
Best Local Similarity 99.4%; Pred. No. 4.5e-251;  
Matches 903; Conservative 0; Mismatches 5; Indels

Qy	4	ACGCGTCCGGCCGCGCGCTCCGAGAGCGGCTTGCCTTCCGAGCGCGCGGACGCGCGCGCC	63
Db	1	ACTCGATCAGCCCGCGCTCCGAGAGCGGCTTGCCTTCCGAGCGCGGACGCGCGCGCC	60
Qy	64	CTGGGGAGAGGCGCGAAGCAGCAGCGCGGATGGCTCCGCGGGCACTCCCGGGGTCCGGCG	123
Db	61	CTGGGGAGAGGCGCGAAGCAGCAGCGGGGATGGCTCCGCGGGCACTCCCGGGGTCCGGCG	120
Qy	124	TCCTAGCCGCTGCTGCTTCTTCTGGGAGCGCGTGAGTTCCGCGCTGGTGGCTCCGAGACA	183
Db	121	TCCTAGCCGCTGCTGCTTCTTCTGGGAGCGCGTGAGTTCCGCGCTGGTGGCTCCGAGACA	180
Qy	184	ATGGGAGCGCGCACATTGCATCCAGAAACAGAGACACCCGTCGCGCCGACGACGATGAT	243
Db	181	ATGGGAGCGCGCGCATTTGCATCCAGAAACAGAGACACCCGTCGCGCCGACGACGATGAT	240
Qy	244	CTGGGAATGGACACCCAGAAATATTTGCATACGGCGTTGTCCCTGCTGTTCTTTATCATGG	303
Db	241	CTGGGAATGGACACCCAGNAATATTTGCATACGGCGTTGTCCCTGCTGTTCTTTATCATGG	300
Qy	304	GTCTCTTTGGCGTCTCATTTTGGCCACTGTCTTAAGAAAGAAAGGCTATCGTTGTACAAAG	363
Db	301	GTCTCTTTGGCGTCTCATTTTGGCCACTGTCTTAAGAAAGAAAGGCTATCGTTGTACAAAG	360
Qy	364	AAGCAGAGCAGATATCGAAGAGGAAAGCTTGAAGATAGAAATGAAATGACAGTGTGA	423
Db	361	AAGCAGAGCAGATATCGAAGAGGAAAGCTTGAAGATAGAAATGAAATGACAGTGTGA	420
Qy	424	ATGAAAAACAGTGACACTGTTGGGCAAAATCGTCCACTACATCATGAAAAATGAAGCGAATG	483
Db	421	ATGAAAAACAGTGACACTGTTGGGCAAAATCGTCCACTACATCATGAAAAATGAAGCGAATG	480
Qy	484	CTGATGCTTTAAAGCGGATGTTAGCAGATAACAGCCTGTATGATCCTGAAAGCCCGGTGA	543
Db	481	CTGATGCTTTAAAGCGGATGTTAGCAGATAACAGCCTGTATGATCCTGAAAGCCCGGTGA	540
Qy	544	CCCCAGCACACAGGAGCCGCGCAGTGCTCTGGGCGCTTTGTACACCGGGGGGAGCGC	603
Db	541	CCCCAGCACACAGGAGCCGCGCAGTGCTCTGGGCGCTTTGTACACCGGGGGGAGCGC	600
Qy	604	CAGGGAAGCAGCTCTGTGGCCCATCATCTGTCATACCGTGGGCGGCTGTGTGTCGAGAGGGATG	663

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XX
SQ Sequence 1320 BP; 332 A; 359 C; 370 G; 259 T; 0 U; 0 Other;

Query Match          69.7%; Score 900; DB 14; Length 1320;
Best Local Similarity 99.4%; Pred. No. 4.5e-251;
Matches 903; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 ACGCGTCCGGCCGCGCTCCGAGCGGCTCTGCCCTTCCGAGCGGGACGGCGGCC 63
DB |||
QY 1 ACTCGATCAGCCGCCGCTCCGAGCGGCTCTGCCCTTCCGAGCGGGACGGCGGCC 60
DB |||
QY 64 CTGGGGAGGAGGCGGAAGCGACGCGCGATGGCTCCGCGGCGCACTCCCGGGGTCCCGCG 123
DB |||
QY 61 CTGGGGAGGAGGCGGAAGCGACGCGCGATGGCTCCGCGGCGCACTCCCGGGGTCCCGCG 120
DB |||
QY 124 TCCTAGCGCTGCTGTCTTCTGTGGGAGCGCGCTGAGTTGCGCGCTGGTGGCTCCGAGCA 183
DB |||
QY 121 TCCTAGCGCTGCTGTCTTCTGTGGGAGCGCGCTGAGTTGCGCGCTGGTGGCTCCGAGCA 180
DB |||
QY 184 ATGGGAGCAGCGCACATTCACCTCCAGAACAGAGACGACCCGCTCGCCAGCAACGATA 243
DB |||
QY 181 ATGGGAGCAGCGCGCAATTCACCTCCAGAACAGAGACGACCCCGCTCGCCAGCAACGATA 240
DB |||
QY 244 CTGGGAATGGACACCCAGAAATATATTGCATACGCGCTTGTCCTGTGTCTTTATCATGG 303
DB |||
QY 241 CTGGGAATGGACACCCAGAAATATATTGCATACGCGCTTGTCCTGTGTCTTTATCATGG 300
DB |||
QY 304 GTCTCTTTGGCGTCTCATTTGCCACCTGCTTTAAGAAAGAGGCTATCGTTGTACAAACAG 363
DB |||
QY 301 GTCTCTTTGGCGTCTCATTTGCCACCTGCTTTAAGAAAGAGGCTATCGTTGTACAAACAG 360
DB |||
QY 364 AAGCAGAGCAAGATATCGAAGAGGAAAGGTTGAAGAGATAGAAATCAATGACAGTGTGA 423
DB |||
QY 361 AAGCAGAGCAAGATATCGAAGAGGAAAGGTTGAAGAGATAGAAATCAATGACAGTGTGA 420
DB |||
QY 424 ATGAAAACAGTGCACATGTTGGGCAAAATCGTCCACTACATCATGAAAAATGAACGGAATG 483
DB |||
QY 421 ATGAAAACAGTGCACATGTTGGGCAAAATCGTCCACTACATCATGAAAAATGAACGGAATG 480
DB |||
QY 484 CTGATGTCTTAAAGGCGATGGTAGCAGATACAGCCCTGTATGATCTCGAAAGCCCCGTGA 543
DB |||
QY 481 CTGATGTCTTAAAGGCGATGGTAGCAGATACAGCCCTGTATGATCTCGAAAGCCCCGTGA 540
DB |||
QY 544 CCCCCAGCACACGAGGAGCCCGCAGTGAAGTCTGGGCGCTTGTTCACAGGGGGGACGC 603
DB |||
QY 541 CCCCCAGCACACGAGGAGCCCGCAGTGAAGTCTGGGCGCTTGTTCACAGGGGGGACGC 600
DB |||
QY 604 CAGGGAAGCAGCGTCTGTGGCCATCATCTGCATACGCTGGGCGGTGTTGTGAGAGGGATG 663
DB |||
QY 601 CAGGGAAGCAGCGTCTGTGGCCATCATCTGCATACGCTGGGCGGTGTTGTGAGAGGGATG 660
DB |||
QY 664 TGTGTCTATCGGTAGGACACAGCGGTGGCACTTTATAAGCCCACTAAACAAGTCCAGAG 723
DB |||
QY 661 TGTGTCTATCGGTAGGACACAGCGGTGGCACTTTATAAGCCCACTAAACAAGTCCAGAG 720
DB |||
QY 724 AGAGCAGACACCGCGCCAGGCGAGGTCAAGTCTTCTGTGGCAGATTTAGAGTTA 783
DB |||
QY 721 AGAGCAGACACCGCGCCAGGCGAGGTCAAGTCTTCTGTGGCAGATTTAGAGTTA 780
DB |||
QY 784 CAAAAGTGGAGCACAAGTCAAAACAGAGGAAACGAGAGCGCTGATGCTGTGTTAGTGGGG 843
DB |||
QY 781 CAAAAGTGGAGCACAAGTCAAAACAGAGGAAACGAGAGCGCTGATGCTGTGTTAGTGGGG 840
DB |||
QY 844 CTGAAACCGTCAATGGGGAGGTGCGCGCAACACTGTGTGAAGAGAGAAACGAGTGGCAACAG 903
DB |||
QY 841 CTGAAACCGTCAATGGGGAGGTGCGCGCAACACTGTGTGAAGAGAGAAACGAGTGGCAACAG 900
DB |||
QY 904 AGTAGCAG 911
DB |||
QY 901 AGTAGCAG 908
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ADI21815
XX ADI21815 standard; cDNA; 1218 BP.
AC ADI21815;
XX
DT 15-APR-2004 (first entry)
XX
XX Novel human protein cDNA #74.
XX forensic; nutritional source; damaged tissue; diseased tissue;
XX myeloid cell disorder; lymphoid cell disorder;
XX bone cartilage tissue growth; tendon tissue growth;
XX ligament tissue growth; nerve tissue growth; regeneration; wound healing;
XX tissue repair; tissue replacement; burn; incision; ulcer; cancer; human;
XX se; gene.
XX Homo sapiens.
OS
XX
XX WO2003025148-A2.
XX
XX 27-MAR-2003.
XX
XX 19-SEP-2002; 2002WO-US029964.
XX
XX 19-SEP-2001; 2001US-0323739P.
XX
XX 13-SEP-2002; 2002US-00323739.
XX
XX (HYSB-) HYSEQ INC.
XX
XX Tang YT, Asundi V, Goodrich RW, Ren F, Zhang J, Zhao QA, Wang J;
XX Ghosh M, Xue AJ, Wehrman T, Weng G, Zhou P, Drmanac RT, Wang D;
XX Haley-Vicente D;
XX
XX WPI; 2003-354603/33.
XX
XX P-PSDB; ADI21099.
XX
XX New polynucleotides and secreted proteins, useful for treating myeloid or
XX lymphoid cell disorders, in bone cartilage, tendon, ligament and nerve
XX tissue growth or regeneration, in wound healing, and in tissue repair and
XX replacement.
XX
XX Claim 1; SEQ ID NO 74; 156pp; English.
XX
XX The invention relates to an isolated polynucleotide encoding a
XX polypeptide with biological activity. The polynucleotides and
XX polypeptides are useful in diagnostics, forensics, gene mapping,
XX identification of mutations responsible for genetic disorders and other
XX traits, to assess biodiversity, as nutritional sources or supplements.
XX The polynucleotides may also be used as molecular weight markers,
XX chromosome markers or map related gene positions, or as an antigen to
XX raise anti-DNA antibodies or elicit immune response. The polypeptides are
XX useful for raising antibodies, as markers for tissues in which the
XX corresponding polypeptide is expressed, for re-engineering damaged or
XX diseased tissues, for treating myeloid or lymphoid cell disorders, in
XX bone cartilage, tendon, ligament and/or nerve tissue growth or
XX regeneration, in wound healing, in tissue repair and replacement, in
XX healing of burns, incisions and ulcers, and in treating cancer. The
XX present sequence represents cDNA encoding a novel human protein.
XX
XX Sequence 1218 BP; 318 A; 302 C; 368 G; 230 T; 0 U; 0 Other;
```

```
Query Match          69.0%; Score 891; DB 10; Length 1218;
Best Local Similarity 100.0%; Pred. No. 1.8e-248;
Matches 891; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 21 GCTCCGAGCGGCTCTGCCCTTCCGAGCGCGGACGCGGCGCTTGGGGAGGAGGCGCA 80
DB |||
DB 1 GCTCCGAGCGGCTCTGCCCTTCCGAGCGCGGACGCGGCGCTTGGGGAGGAGGCGCA 60
DB |||
QY 81 AGCGACGCGCGATGCTCTCCGCGGCACTCCCGGGGTCCCGCGCTCTAGCGCTGTGTC 140
DB |||
DB 61 AGCGACGCGCGATGCTCTCCGCGGCACTCCCGGGGTCCCGCGCTCTAGCGCTGTGTC 120
DB |||
```



141 TTCTGGAGCGCGCTGAGTTCCGCGCTGCTCGGACAAATGGAGCAGCGGCACA 200  
Db TTCTGGAGCGCGCTGAGTTCCGCGCTGCTCGGACAAATGGAGCAGCGGCACA 180  
201 TTGCACTCCAGAACAGAGACGACCCCGCTCGCCAGCAACGATACCTGGGAATGGACACCCA 260  
Db TTGCACTCCAGAACAGAGACGACCCCGCTCGCCAGCAACGATACCTGGGAATGGACACCCA 240  
261 GAATATATTCATACGCGCTTGTCCCTGTGTCTTTTATCATGGGTCTCTTTGGCGTCTC 320  
Db GAATATATTCATACGCGCTTGTCCCTGTGTCTTTTATCATGGGTCTCTTTGGCGTCTC 300  
321 ATTTGCCACCTGCTTAAGAGAAAGGCTATCGTTGTATACACAGAGCAGCAAGATATC 380  
Db ATTTGCCACCTGCTTAAGAGAAAGGCTATCGTTGTATACACAGAGCAGCAAGATATC 360  
381 GAAGAGAAAGGTTGAAGATAGAAATGAATGACAGTGTGAATGAATGAATGAATGACACT 440  
Db GAAGAGAAAGGTTGAAGATAGAAATGAATGACAGTGTGAATGAATGAATGAATGACACT 420  
441 GTTGGCAAAATCGTCCACTACATCATGAAATGAAGCGAATGCTGATGTCTTAAAGCG 500  
Db GTTGGCAAAATCGTCCACTACATCATGAAATGAAGCGAATGCTGATGTCTTAAAGCG 480  
501 ATGTAGCAGATACAGCCTGTATGATCTGAAAGCCCGTGAACCCCGCAGCACACACAGG 560  
Db ATGTAGCAGATACAGCCTGTATGATCTGAAAGCCCGTGAACCCCGCAGCACACACAGG 540  
561 AGCCCGCAGTGAGTCTGCGGCTTTGTTCACAGCGGGGAGCCAGGCGAAGCAGTCTGT 620  
Db AGCCCGCAGTGAGTCTGCGGCTTTGTTCACAGCGGGGAGCCAGGCGAAGCAGTCTGT 600  
621 GGCCATCATCTGCATACGCTGGGCGGTGTGTGTCAGAGGGATGTGTCTATCGGTGTAGG 680  
Db GGCCATCATCTGCATACGCTGGGCGGTGTGTGTCAGAGGGATGTGTCTATCGGTGTAGG 660  
681 CACAAGCGGTGGCACTTTTAAAGCCCACTAACAGTCCAGAGAGCAGACACACGCGC 740  
Db CACAAGCGGTGGCACTTTTAAAGCCCACTAACAGTCCAGAGAGCAGACACACGCGC 720  
741 CAAGCGGAGTGCAGTCTCTTTCTGTTGGCAGATTTAGAGTTACAAAGTGGAGCACAAG 800  
Db CAAGCGGAGTGCAGTCTCTTTCTGTTGGCAGATTTAGAGTTACAAAGTGGAGCACAAG 780  
801 TCAAAACAGAGGAACGAGAGCGCTGATGTCTGTTAGTGGGCTGAAACCGTCAATGGG 860  
Db TCAAAACAGAGGAACGAGAGCGCTGATGTCTGTTAGTGGGCTGAAACCGTCAATGGG 840  
861 GAGTGGCGGCAACACCTGTGAAGAGAAACGCAAGTGGCAGAGTAGCAG 911  
Db GAGTGGCGGCAACACCTGTGAAGAGAAACGCAAGTGGCAGAGTAGCAG 891

## RESULT 9

AAH98631

ID AAH98631 standard; cDNA; 861 BP.

AC AAH98631;

DT 12-OCT-2001 (first entry)

XX Human EST-derived coding sequence SEQ ID NO: 488.

XX Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;

XX tomato; monkey; dog; sea urchin; expressed sequence tag; EST;

XX diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;

XX gene therapy; nutrition; ss.

XX Homo sapiens.

XX WO200154477-A2.

XX 02-AUG-2001.

25-JAN-2001; 2001WO-US002687.  
25-JAN-2000; 2000US-00491404.  
17-JUL-2000; 2000US-00617746.  
03-AUG-2000; 2000US-00631451.  
15-SEP-2000; 2000US-00663870.  
(HYSE-) HYSEQ INC.  
Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;  
Cao Y, Drmanac RA, Zhang J, Werhman T;  
WPI; 2001-476164/51.  
P-PSDB; AAM23972.  
Isolated polypeptide for treatment of diseases, diagnostics, raising  
antibodies and research use.  
Claim 1; Page 522; 1275pp; English.  
The present invention provides the protein and coding sequences of novel  
proteins from a variety of organisms, including human, dog, cat, horse,  
cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea  
urchin and tomato. These were derived from expressed sequence tags (ESTs)  
from the organism of interest. They can be used in diagnostics,  
forensics, gene mapping, identification of mutations, to assess  
biodiversity and for nutritional purposes. The present sequence is a cDNA  
of the invention  
XX Sequence 861 BP; 216 A; 214 C; 265 G; 166 T; 0 U; 0 Other;  
SQ  
Query Match 64.1%; Score 827.8; DB 4; Length 861;  
Best Local Similarity 98.5%; Pred. No. 3.9e-230;  
Matches 846; Conservative 0; Mismatches 12; Indels 1; Gaps 1;  
Qy 30 CGGCTCTGCTTCCGAGCGCGGAGACCGCGCGCTCGGGAGAGGCGGAGCGACGCG 89  
Db 2 CGACTCTTCTGCTCCGAGCGCGGAGACCGCGCGCTCGGGAGAGGCGGAGCGACGCG 61  
Qy 90 GCGATGCTCCGCGGGGCACTCCCGGGGTCGCGCGCTAGCGCTGCTCTCGTGGGA 149  
Db 62 GCGATGCTCCGCGGGGCACTCCCGGGGTCGCGCGCTAGCGCTGCTCTCGTGGGA 121  
Qy 150 GGCGCGCTGAGTTCGCGCGCTGCTCGGACAAATGGAGCAGCGCACATTGCATCTCC 209  
Db 122 GGCGCGCTGAGTTCGCGCGCTGCTCGGACAAATGGAGCAGCGCACATTGCATCTCC 181  
Qy 210 AGAACAGAGACGACCCCGTCCGCGCAACGATACCTGGGAATGACACCCAGATATATT 269  
Db 182 AGAACAGAGACGACCCCGTCCGCGCAACGATACCTGGGAATGACACCCAGATATATT 241  
Qy 270 GCATACGCGCTGCTCCCTGCTGCTTTTATCATGGGTCTCTTTGGGCTCTCTTTGCCAC 329  
Db 242 GCATACGCGCTGCTCCCTGCTGCTTTTATCATGGGTCTCTTTGGGCTCTCTTTGCCAC 301  
Qy 330 CTGCTTAAGAGAAAGGCTATCGTTGTACAAAGCAGACAGCAAGATATCGAAGAGGAA 389  
Db 302 CTGCTTAAGAGAAAGGCTATCGTTGTACAAAGCAGACAGCAAGATATCGAAGAGGAA 361  
Qy 390 AAGTTGAAAAGATAGAAATGAATGACAGTGTGAATGAAAACAGTGACACTGTTGGGCAA 449  
Db 362 AAGTTGAAAAGATAGAAATGAATGACAGTGTGAATGAAAACAGTGACACTGTTGGGCAA 421  
Qy 450 ATCGTCCACTACATCATGAAAATGAAGCGAATGCTGATGTCTTAAAGCGCATGTAGCA 509  
Db 422 ATCGTCCACTACATCATGAAAATGAAGCGAATGCTGATGTCTTAAAGCGCATGTAGCA 481  
Qy 510 GATAACAGCCTGTATGATCTCTGAAAGCCCGTGAACCCCGCAGCACACCA-GGGAGCGCCGC 568  
Db 482 GATAACAGCCTGTATGATCTCTGAAAGCCCGTGAACCCCGCAGCACACCA-GGGAGCGCCGC 541  
Qy 569 AGTGAGTCTCTGGGCTTTGTTCACAGGGGGGAGCGCCAGGGAAGCAGCGTCTGTGTGCCATCA 628

Db 542 AGTGAGTCTGGGCTTTGTCCACAGGGGGACCCAGGGAAGCACGCTCTGTGGCCATCA 601  
Qy 629 TCTGCATACGGTGGCGGTGTTCGAGAGGGATGTGTTCATCGGTGTAGGCAAGCG 688  
Db 602 TCTGCATACGGTGGCGGTGTTCGAGAGGGATGTGTTCATCGGTGTAGGCAAGCG 661  
Qy 689 GTGGCACTTTATAAAGCCCACTAACAGTCCAGAGAGAGACACAGCGGCCCAAGGCGA 748  
Db 662 GTGGCACTTTATAAAGCCCACTAACAGTCCAGAGAGAGAGACACAGCGGCCCAAGGCGA 721  
Qy 749 GGTCAAGCTCTCTTCTGTGGCAGATTTAGAGTTACAAAAGTGGAGCACAAGTCAAAACCA 808  
Db 722 GGTCAAGCTCTCTTCTGTGGCAGATTTAGAGTTACAAAAGTGGAGCACAAGTCAAAACCA 781  
Qy 809 GAAGGAACGGGAAGCCTGATGTCTGTAGTGGGGCTGAACCCGTCAATGGGGAGGTGCC 868  
Db 782 CAAGGAACGGGAAGCCTGATGTCTGTAAATGGGGCTGAACCCGTCAATGGGGAGGTGCC 841  
Qy 869 GGCAACACCTGTGAAGAGA 887  
Db 842 GGCAACACCTGTGAAGAGA 860

RESULT 10

AD121359  
ID AD121359 standard; cDNA; 861 BP.  
XX  
AC AD121359;

15-APR-2004 (first entry)

Novel human expressed sequence tag, EST #58.

KW forensic; nutritional source; damaged tissue; diseased tissue;  
KW myeloid cell disorder; lymphoid cell disorder;  
KW bone cartilage tissue growth; tendon tissue growth;  
KW ligament tissue growth; nerve tissue growth; regeneration; wound healing;  
KW tissue repair; tissue replacement; burn; incision; ulcer; cancer; human;  
KW ss; gene; EST; expressed sequence tag.

XX Homo sapiens.

XX WO2003025148-A2.

XX 27-MAR-2003.

XX 19-SEP-2002; 2002WO-US029964.

XX 19-SEP-2001; 2001US-0323739P.

PR 13-SEP-2002; 2002US-00323739.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Asundi V, Goodrich RW, Ren P, Zhang J, Zhao QH, Wang J;  
PI Ghosh M, Xue AJ, Wehrman T, Weng G, Zhou P, Drmanac RT, Wang D;  
PI Haley-Vicente D;

XX WPI; 2003-354603/33.  
DR P-PSDB; ADI21579.

XX New polynucleotides and secreted proteins, useful for treating myeloid or  
PT lymphoid cell disorders, in bone cartilage, tendon, ligament and nerve  
PT tissue growth or regeneration, in wound healing, and in tissue repair and  
PT replacement.

XX Example 2; SEQ ID NO 610; 156pp; English.

XX The invention relates to an isolated polynucleotide encoding a  
CC polypeptide with biological activity. The polynucleotides and  
CC polypeptides are useful in diagnostics, forensics, gene mapping,  
CC identification of mutations responsible for genetic disorders and other  
CC traits, to assess biodiversity, as nutritional sources or supplements.

CC The polynucleotides may also be used as molecular weight markers,  
CC chromosome markers or map related gene positions, or as an antigen to  
CC raise anti-DNA antibodies or elicit immune response. The polypeptides are  
CC useful for raising antibodies, as markers for tissues in which the  
CC corresponding polypeptide is expressed, for re-engineering damaged or  
CC diseased tissues, for treating myeloid or lymphoid cell disorders, in  
CC bone cartilage, tendon, ligament and/or nerve tissue growth or  
CC regeneration, in wound healing, in tissue repair and replacement, in  
CC healing of burns, incisions and ulcers, and in treating cancer. The  
CC present sequence represents a novel human expressed sequence tag, EST.  
XX

SQ Sequence 861 BP; 216 A; 214 C; 265 G; 166 T; 0 U; 0 Other;

Query Match 64.1%; Score 827.8; DB 10; Length 861;  
Best Local Similarity 98.5%; Pred. No. 3.9e-210;  
Matches 846; Conservative 0; Mismatches 12; Indels 1; Gaps 1;

Qy 30 CGGCTCTGCTTCCCGAGCGCGGACGCGCGCGCTGGGGAGGAGGCGCAAGCGAGCGG 89  
Db 2 CGACTCTTCTGTCCTCGAGCGCGGACGCGCGCGCTGGGGAGGAGGCGCAAGCGAGCGG 61  
Qy 90 GCGATGGCTCCGGGGGCACTTCCCGGGTCCCGCTCTAGCCGTCTGTCTTCTGTGGGA 149  
Db 62 GCGATGGCTCCGGGGGCACTTCCCGGGTCCCGCTCTAGCCGTCTGTCTTCTGTGGGA 121  
Qy 150 GCGCGCTGAGTTCGCGCGCTGGTCCCGGCAATGGGAGGAGCGCCACATTTGCATCTCC 209  
Db 122 GCGCGCTGAGTTCGCGCGCTGGTCCCGGCAATGGGAGGAGCGCCACATTTGCATCTCC 181  
Qy 210 AGAACAGAGACGACCCCGCTCGCCAGCAAGCATCTGGGAATGGACACCCAGATATATT 269  
Db 182 AGAACAGAGACGACCCCGCTCGCCAGCAAGCATCTGGGAATGGACACCCAGATATATT 241  
Qy 270 GCATACGCGTGTGCTGCTGTTTATCATGGTCTCTTTGGCGTCTCATTTGGCCAC 329  
Db 242 GCATACGCGTGTGCTGCTGTTTATCATGGTCTCTTTGGCGTCTCATTTGGCCAC 301  
Qy 330 CTGCTTAAGGAAGAGGCTATGTTGTACACAGACAGCAGCAGATATCGAAGAGAA 389  
Db 302 CTGCTTAAGGAAGAGGCTATGTTGTACACAGACAGCAGCAGATATCGAAGAGAA 361  
Qy 390 AAGGTTGAAAAGATAGAAATGAAATGACAGTGTGAATGAAACAGTGCACCTGTTGGGCAA 449  
Db 362 AAGGTTGAAAAGATAGAAATGAAATGACAGTGTGAATGAAACAGTGCACCTGTTGGGCAA 421  
Qy 450 ATCGTCCACTACATCATGAAAAATGAAGCGAATGCTGATGTCTTAAAGGCGATGGTAGCA 509  
Db 422 ATCGTCCACTACATCATGAAAAATGAAGCGAATGCTGATGTCTTAAAGGCGATGGTAGCA 481  
Qy 510 GATAACAGCCTGTATGATCCTGAAGCCCGCTGACCCCGCCAGCAGCACA- GGGAGCCGCC 568  
Db 482 GATAACAGCCTGTATGATCCTGAAGCCCGCTGACCCCGCCAGCAGCACA- GGGAGCCGCC 541  
Qy 569 AGTGAGTCTCTGGGCTTTGTCCAGGGGGAGCCAGGGAAGCAGCTGTGTGCCATCA 628  
Db 542 AGTGAGTCTCTGGGCTTTGTCCAGGGGGAGCCAGGGAAGCAGCTGTGTGCCATCA 601  
Qy 629 TCTGCATACGCTGGGGTGTGTTCGAGAGGGATGTGTTCATCGGTGTAGGCAAGCG 688  
Db 602 TCTGCATACGCTGGGGTGTGTTCGAGAGGGATGTGTTCATCGGTGTAGGCAAGCG 661  
Qy 689 GTGGCACTTTATAAAGCCCACTAACAGTCCAGAGAGAGCAGCAGCCAGCGCCCAAGGCGA 748  
Db 662 GTGGCACTTTATAAAGCCCACTAACAGTCCAGAGAGAGCAGCAGCCAGCGCCCAAGGCGA 721  
Qy 749 GGTCAAGCTCTCTTCTGTGGCAGATTTAGAGTTACAAAAGTGGAGCACAAGTCAAAACCA 808  
Db 722 GGTCAAGCTCTCTTCTGTGGCAGATTTAGAGTTACAAAAGTGGAGCACAAGTCAAAACCA 781  
Qy 809 GAAGGAACGGGAAGCCTGATGTCTGTAGTGGGGCTGAACCCGTCAATGGGGAGGTGCC 868  
Db 782 CAAGGAACGGGAAGCCTGATGTCTGTAAATGGGGCTGAACCCGTCAATGGGGAGGTGCC 841







CC nucleic acid molecule; a nucleic acid composition comprising a carrier or  
CC a buffer and one or more compositions comprising the nucleic acid  
CC molecule, vector or host cell; a substantially purified polypeptide; an  
CC animal injected with the polypeptide; a polypeptide composition  
CC comprising the polypeptide molecule and a carrier or buffer; a cell  
CC culture medium comprising the polypeptide or transfected cells  
CC transfected with the polynucleotide; making a transformed, transfectant,  
CC transduced, or infected host cell; synthesising Nanodiscs simultaneously  
CC and for synthesising a series of simultaneously-synthesised Nanodiscs  
CC sequentially utilising a dynamic system; preparing a hydrophobic protein  
CC for determination of crystal structure; immunising a non-human animal;  
CC screening for modulators of hydrophobic protein activity; a diagnostic  
CC kit; determining the presence of the nucleic acid molecule or its  
CC complement; determining the presence of an antibody to the polypeptide in  
CC a sample; an antibody specifically recognising, binding to or modulating  
CC the biological activity of at least one polypeptide encoded by a nucleic  
CC acid molecule or its biologically active fragment; an antibody  
CC composition comprising the antibody and a carrier; a bacteriophage, where  
CC the antibody is displayed on the bacteriophage; a bacterial cell  
CC comprising the bacteriophage; a non-human animal injected with the  
CC antibody composition; a host cell that secretes the antibody; making an  
CC antibody; diagnosing a disease, disorder, syndrome, or condition  
CC comprising cancer, or proliferative, inflammatory, immune, metabolic,  
CC bone, CNS, genetic, bacterial and viral diseases, disorders, syndromes or  
CC conditions in a patient; a modulator composition comprising a modulator  
CC and a carrier; gene therapy; prophylactic or therapeutic treatment of a  
CC subject; an isolated modified cell comprising at least one first  
CC heterologous nucleic acid molecule, where the first heterologous nucleic  
CC acid molecule comprises a first polynucleotide sequence that encodes a  
CC first polypeptide; a non-human animal deficient in the polypeptide or  
CC that over-expresses the polypeptide; isolated tissues derived from the  
CC non-human animal; and one or more cells derived from the non-human  
CC animal. The nucleic acid is useful in preparing a composition for  
CC diagnosing or treating e.g., cancer, psoriasis or ulcerative colitis.  
CC This sequence encodes a novel human polypeptide of the invention.

XX Sequence 348 BP; 34 A; 121 C; 146 G; 47 T; 0 U; 0 Other;

Query Match 13.4%; Score 172.6; DB 13; Length 348;  
Best Local Similarity 97.8%; Pred. No. 1.8e-39;  
Matches 175; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 2 CCACGCTCCGCGCCGCGCTCCGAGCGGCTCTGCTTCCGAGCGCGAGCGCGCG 61  
DB 42 CCATCGATCAGCCGCGCGCTCCGAGCGGCTCTGCTTCCGAGCGCGAGCGCGCG 101  
QY 62 CCCTGGGGAGGAGGCGAGCGAGCGGCGGATGGCTCCGCGGCACTCCCGGGTCCGC 121  
DB 102 CCCTGGGGAGGAGGCGGAGCGAGCGGCGGATGGCTCCGCGGCACTCCCGGGTCCGC 161  
QY 122 CGTCTAGCCGCTCTGCTTTCGTGGGAGGCGCGTGGTTCGCGGCTGGTCCCGG 180  
DB 162 CGTCTAGCCGCTCTGCTTTCGTGGGAGGCGCGTGGTTCGCGGCTGGTCCCGG 220

RESULT 14  
ABQ19006  
ID ABQ19006 standard; DNA; 694 BP.  
XX ABQ19006;  
AC  
XX  
DT 12-JUL-2002 (first entry)  
XX  
DE Oligonucleotide for detecting cytosine methylation SEQ ID NO 5597.  
XX  
KW Human; cytosine methylation; 5'-CpG-3'; uracil; cytosine; diagnosis;  
KW drug; side effect; cancer; central nervous system; cardiovascular;  
KW gastrointestinal; respiratory system; single nucleotide polymorphism;  
KW SNP; cell differentiation; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200218632-A2.

XX 07-MAR-2002.  
PD  
XX  
PF 01-SEP-2001; 2001WO-EP010074.  
XX  
XX 01-SEP-2000; 2000DE-01043826.  
PR 05-SEP-2000; 2000DE-01044543.  
XX  
PA (EPIG-) EPIGENOMICS AG.  
XX  
PI Olek A, Piepenbrock C, Berlin K, Guetig D;  
XX WPI; 2002-371829/40.  
DR

XX Determining the degree of cytosine methylation in genomic DNA, useful for  
XX diagnosis and prognosis, comprises selective hybridization of amplicons  
XX from chemically treated DNA.

XX Claim 12; 56pp + Sequence Listing; 56pp; German.

XX This invention describes a novel method for determining the degree of  
XX methylation of a particular cytosine in a motif 5'-CpG-3', present in a  
XX genomic sample of DNA. The sample is treated chemically to convert  
XX cytosine (C) but not methylated C, to uracil, then part of the genomic  
XX DNA that contains the target C is amplified to form a labeled amplicon.  
XX The amplicon is hybridised to two classes, each with at least one member,  
XX of oligonucleotides and/or peptide-nucleic acid (PNA) oligomers and the  
XX degree of hybridisation to both classes is determined from the label on  
XX the amplicon. From the ratio of labels hybridised to the two classes of  
XX oligomers, the degree of methylation is calculated. The method is used:  
XX (i) for diagnosis and/or prognosis of side effects of therapeutic drugs  
XX and of a wide range of diseases, e.g. cancer, disorders of the central  
XX nervous, cardiovascular, gastrointestinal and respiratory systems etc.,  
XX particularly by detecting mutations or single nucleotide polymorphisms  
XX (SNP's); and (ii) for differentiation of cell or tissue types and for  
XX investigating cell differentiation. The method allows the methylation  
XX status of many C residues to be determined simultaneously. ABQ13410-  
XX ABQ54121 represent genomic DNA sequences used to illustrate the method  
XX for determining the degree of cytosine methylation described in the  
XX disclosure of the invention

XX Sequence 694 BP; 74 A; 86 C; 302 G; 232 T; 0 U; 0 Other;

Query Match 8.9%; Score 115.4; DB 6; Length 694;  
Best Local Similarity 81.2%; Pred. No. 1.2e-22;  
Matches 134; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 16 CGCGCGTCCGAGCGGCTCTGCTTCCGAGCGCGGAGCGCGCGCTCCGGGAGGAG 75  
DB 246 CGTCCGTTCCGAGCGGTTTGTGTTTTTCGAGCGCGGAGCGCGCGTTTGGGGAGGAG 305  
QY 76 GCGGAGCGAGCGGCGGATGGCTCCGCGGCGACTCCCGGGTCCGCGTCTAGCCGCTG 135  
DB 306 GCGGAGCGAGCGGCGGATGGTTTCGCGGGTATTTTCGGGGTTCTGCTTTAGTCGTG 365  
QY 136 CTGTCTTCGTGGGAGGCGCGTGGTTCGCGGCTGGTGGCTCCCG 180  
DB 366 TTGTTTTCGTGGGAGGCGGCTGCTGAGTTCTGTTGGTTTCGG 410

RESULT 15  
ABQ19007/c  
ID ABQ19007 standard; DNA; 694 BP.

XX ABQ19007;  
AC  
XX  
DT 12-JUL-2002 (first entry)  
XX  
DE Oligonucleotide for detecting cytosine methylation SEQ ID NO 5598.  
XX  
KW Human; cytosine methylation; 5'-CpG-3'; uracil; cytosine; diagnosis;  
KW drug; side effect; cancer; central nervous system; cardiovascular;  
KW gastrointestinal; respiratory system; single nucleotide polymorphism;

KW SNP; cell differentiation; ds.

OS Homo sapiens.

PN WO200218632-A2.

XX 07-MAR-2002.

XX 01-SEP-2001; 2001WO-EP010074.

XX 01-SEP-2000; 2000DE-01043826.

PR 05-SEP-2000; 2000DE-0104543.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K, Guetig D;

XX WPI; 2002-371829/40.

XX Determining the degree of cytosine methylation in genomic DNA, useful for diagnosis and prognosis, comprises selective hybridization of amplicons from chemically treated DNA.

XX Claim 12; 56pp + Sequence Listing; 56pp; German.

XX This invention describes a novel method for determining the degree of methylation of a particular cytosine in a motif 5'-CpG-3', present in a genomic sample of DNA. The sample is treated chemically to convert cytosine (C) but not methylated C, to uracil, then part of the genomic DNA that contains the target C is amplified to form a labeled amplicon. The amplicon is hybridised to two classes, each with at least one member, of oligonucleotides and/or peptide-nucleic acid (PNA) oligomers and the degree of hybridisation to both classes is determined from the label on the amplicon. From the ratio of labels hybridised to the two classes of oligomers, the degree of methylation is calculated. The method is used: (i) for diagnosis and/or prognosis of side effects of therapeutic drugs and of a wide range of diseases, e.g. cancer, disorders of the central nervous, cardiovascular, gastrointestinal and respiratory systems etc., particularly by detecting mutations or single nucleotide polymorphisms (SNP's); and (ii) for differentiation of cell or tissue types and for investigating cell differentiation. The method allows the methylation status of many C residues to be determined simultaneously. ABQ13410-ABQ54121 represent genomic DNA sequences used to illustrate the method for determining the degree of cytosine methylation described in the disclosure of the invention

SQ Sequence 694 BP; 232 A; 302 C; 86 G; 74 T; 0 U; 0 Other;

Query Match		8.9%;	Score 115.4;	DB 6;	Length 694;
Best Local Similarity		81.2%;	Pred. No. 1.2e-22;		
Matches 134;		Conservative 0;	Mismatches 31;	Indels 0;	Gaps 0;
QY	16	CGCGCGGCTCCGAGCGGCTCTGCTCCGAGCGCGGACCGCGCCCTGGGGGAGGAG	75		
Db	449	CGTCTGGTTTCGAGCGGTTTGTGTTTTCGAGCGCGGACCGCGCGTTTGGGGGAGGAG	390		
QY	76	GCGGAGCGACGGCGATCGCTCCGCGGCGGACCTCCCGGGTCCGCGCTCTAGCCGCTG	135		
Db	389	GCGGAGCGACGGCGGATCGTTTCGCGGTTATTTTCGGGGTTCGCTGTTTGTGCTGTTG	330		
QY	136	CTGCTTCTGGGAGGCGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	180		
Db	329	TTGTTTCTGGGAGGCGCTGTGAGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	285		

Search completed: February 23, 2006, 14:48:06  
Job time : 791 secs

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 23, 2006, 14:48:23 ; Search time 4935 Seconds  
(without alignments)

12239.539 Million cell updates/sec

Title: US-10-620-562-1

Perfect score: 1291

Sequence: 1 cccacgcgtccggccgcg.....cttacgcaaaaaaaaaa 1291

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:\*

1: gb\_est1.\*  
2: gb\_est2.\*  
3: gb\_est3.\*  
4: gb\_btc.\*  
5: gb\_est4.\*  
6: gb\_est5.\*  
7: gb\_est6.\*  
8: gb\_est7.\*  
9: gb\_gsa1.\*  
10: gb\_gsa2.\*  
11: gb\_gsa3.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	855.2	66.2	898	5	BX463460
2	785.2	59.3	882	2	BE792154
3	756.8	58.6	882	5	BX423892
4	736.8	56.3	1000	3	BM919548
5	594.4	46.0	620	5	BQ807844
6	594.4	46.0	874	5	BUL50311
7	570	44.2	577	8	DR004573
8	554.2	42.9	815	8	DN948289
9	538.2	41.7	684	3	BP438847
10	488.6	37.8	906	3	BI691144
11	479.6	37.1	626	8	DN382824
12	460.2	35.6	795	3	BI689796
13	454.6	35.2	680	5	BY754410
14	454.2	35.2	757	3	BI658107
15	449.4	34.8	672	5	BY754598
16	447.8	34.7	813	6	CA459450
17	445.4	34.5	705	11	DQ043383
18	439.4	34.0	710	5	BY735770
19	407.4	31.6	612	2	BB619564
20	405.6	31.4	705	11	DQ043384
21	387.2	30.0	578	2	BE282422
22	385.6	29.9	660	2	BB612565

23	384.4	29.8	661	2	BB624998
24	383.8	29.7	624	7	CF899514
25	380	29.4	873	6	CA458776
26	368.4	28.5	645	2	BG975812
27	367.6	28.5	652	5	BY727150
28	364.2	28.2	1013	2	BG862046
c	359	27.8	441	1	AA782933
29	336.4	26.1	722	7	CF950164
30	319	24.7	464	7	CK334279
31	318.4	24.7	476	1	AI593167
32	315.2	24.4	465	5	BY256640
33	314.6	24.4	643	2	BI113590
34	312.4	24.2	494	2	BF016184
35	309.6	24.0	490	1	AI788006
36	308.2	23.9	580	5	BY265553
37	306	23.7	779	3	BP156823
38	305	23.6	428	4	AK182372
39	288.6	22.4	973	5	BZ234449
40	284.2	22.0	475	2	BB857593
41	278.8	21.6	441	5	BY273890
42	271.4	21.0	389	4	AK202598
43	271.4	21.0	765	7	CO559467
44	271	21.0	464	6	CA564115
45	271	21.0	464	6	CA564115

#### ALIGNMENTS

RESULT 1  
BX463460  
LOCUS  
DEFINITION BX463460 Homo sapiens ADULT BRAIN Homo sapiens cDNA clone  
CSODN002YB14 5-PRIME, mRNA sequence.  
ACCESSION BX463460  
VERSION BX463460.2 GI:47070031  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Homnidae; Homo.  
REFERENCE  
1 (bases 1 to 898)  
Li, W.B., Gruber, C., Jessee, J. and Polayes, D.  
Full-length cDNA libraries and normalization  
Unpublished (2001)  
On May 22, 2003 this sequence version replaced gi:31033530.  
Contact: Genoscope  
Genoscope - Centre National de Sequencage  
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE  
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr  
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime  
end enriched, double-strand cDNA was digested with Not I and cloned  
into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library  
was not normalized. Library was constructed by Life Technologies, a  
division of Invitrogen.  
This sequence belongs to sequence cluster 2573.r  
For more information about this cluster, see  
http://www.genoscope.cns.fr/cdna?c=CSODN002DA07QPI&c=2573.r.

FEATURES  
source  
1..898  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="CSODN002YB14"  
/tissue\_type="ADULT BRAIN"  
/dev\_stage="adult"  
/clone\_lib="Homo sapiens ADULT BRAIN"  
/notes="Organ: brain; Vector: pCMVSPORT 6; 1st strand cDNA  
was primed with a NotI-oligo(dT) primer. Five prime end  
enriched, double-strand cDNA was digested with Not I and  
cloned into the Not I and EcoRV sites of the pCMVSPORT 6  
vector. Library was not normalized."

ORIGIN

```
Query Match      66.2%; Score 855.2; DB 5; Length 898;
Best Local Similarity 97.1%; Pred. No. 8.8e-221;
Matches 873; Conservative 15; Mismatches 9; Indels 2; Gaps 2;

QY 14 CCGCCGGCTCCGAGCGGCTCTCCCTTCCCGAGCGCGGAGCGCGGCCCTCGGGGAGG 73
DB 1 CCGCCGGCTCCGAGCGGCTCTCCCTTCCCGAGCGCGGAGCGCGGCCCTCGGGGAGG 60
QY 74 AGGCGAAGCAGCACCGG- CGATGCTCCGCGGGGCACTCCCGGGTCCGCGTCTTAGCCG 132
DB 61 AGGCGAAGCAGCACCGGCGATGCTCCCGGGGCACTCCCGGGTCCGCGTCTTAGCCG 120
QY 133 CTGCTGCTTCTGCGGAGCGCGTGTAGTTCCGCGCTGTGGCTCCGACAAATGGGAGCA 192
DB 121 CTGCTGCTTCTGCGGAGCGCGTGTAGTTCCGCGCTGTGGCTCCGACAAATGGGAGCA 180
QY 193 GCCGACATTTGCACTCCAGAACAGAGACGACCCCGTCCGCGACGACATCTGGGAATG 252
DB 181 GCCGACATTTGCACTCCAGAACAGAGACGACCCCGTCCGCGACGACATCTGGGAATG 240
QY 253 GACACCCAGATATATTGCAATACCGCTTGTCCCTGTGTTCTTTATCATGGTCTCTTTG 312
DB 241 GMAACCCAGATATATTGCAATACCGCTTGTCCCTGTGTTCTTTATCATGGTCTCTTTG 300
QY 313 GCGTCTCTATTGTCACCTGCTTAAGAGAAAGGCTATCGTTGTACAAAGACGACGAGC 372
DB 301 GCGTCTCTATTGTCACCTGCTTAAGAGAAAGGCTATCGTTGTAAAGAGACGACGAGC 360
QY 373 AAGATATCGAAGAGGAAAGGTTGAAAGATAGAAATGAATGACAGTGTGAATGAAACAA 432
DB 361 AAGATATCGAAGAGGAAAGGTTGAAAGATAGAAATGAATGACAGTGTGAATGAAACAA 420
QY 433 GTGACATGTTGGCAATGTCACCTACATCATATGAAAAATGAAGCGAATGCTGATGCT 492
DB 421 GTGMACTGTTGGCAATGTCACCTACATCATATGAAAAATGAAGCGAATGCTGATGCT 480
QY 493 TAAAGGCGATGTTAGCAGATAACAGCTGTATGATCTGTAAAGCCCGTACACCCAGCA 552
DB 481 TAAAGGCGATGTTAGCAGATAACAGCTGTATGATCTGTAAAGCCCGTACACCCAGCA 540
QY 553 CACGAGGAGCCCGCAGTGTAGTCTTGGGCTTTGTTCACAGGGGGAGCGCAGGGAAGC 612
DB 541 CACGAGGAGCCCGCAGTGTAGTCTTGGGCTTTGTTCACAGGGGGAGCGCAGGGAAGC 600
QY 613 ACGTCTGTGGCATCATCTGCAATCGGTGGCGGTGTGTGCGAGGGATGTGTGTCATC 672
DB 601 ACGTCTGTGGCATCATCTGCAATCGGTGGCGGTGTGTGCGAGGGGATGTGTGTCATC 660
QY 673 GGTGTAGGCACAGCGGTGGCACTTTTAAAGCCCACTAACAGTCCAGAGAGAGCAGAC 732
DB 661 GGTGTAGGCACAGCGGTGGCACTTTTAAAGCCCACTAACAGTCCAGAGAGAGCAGAC 720
QY 733 CACGGCCCAAGCGAGGTCACTGCTCTTCTGTTGGCAGATTTAGAGTTACAAAAGTGG 792
DB 721 CACGGCCCAAGCGAGGTCACTGCTCTTCTGTTGGCAGATTTAGAGTTACAAAAGTGG 780
QY 793 AGCAAAAGTCAACAGAGAAAGCGAGAGAGCTGTATGTTGTTAGTGGGCTGAAACCG 852
DB 781 AGCAAAAGTCAACAGAGAAAGCGAGAGAGCTGTATGTTGTTAGTGGGCTGAAACCG 840
QY 853 TCAATGGGAGGTGCGCGCAACCTCTGAAGAGAGAACCGAGTGGCAGAGGTAGCAG 911
DB 841 TCAATGGGAGGTGCGCGCAACCTCTGAAGAGAGAACCGAGTGGCAGAGGTAGCAG 898
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```
RESULT 2
LOCUS BE792154
DEFINITION BE792154 882 bp mRNA linear EST 20-SEP-2000
ACCESSION 601582045F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936491 5',
VERSION BE792154 mRNA sequence.
BE792154.1 GI:10213352
```

```
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
MAMMALIA; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 882)
AUTHORS NTH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: DCTD/DTF
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: L1CM780 row: j column: 12
High quality sequence stop: 825.
FEATURES
Location/Qualifiers
1..882
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3936491"
/tissue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC 7"
Notes="Organ: lung; Vector: pOTB7; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally_
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCAGGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
```

## ORIGIN

```
Query Match      59.3%; Score 765.2; DB 2; Length 882;
Best Local Similarity 99.5%; Pred. No. 2.5e-196;
Matches 778; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 26 GGAGCGGCTCTGCTTCCCGAGCGCGGAGCGCGGCCCTGGGGAGAGGCGGCGAAGCA 85
DB 1 GGAGCGGCTCTGCTTCCCGAGCGCGGAGCGCGGCCCTGGGGAGAGGCGGCGAAGCA 60
QY 86 CGCGGGGATGGCTCCGCGGCACTCCCGGGGTCCGCGTCTAGCCGCTGCTGTCTTCGT 145
DB 61 CGCGGGATGGCTCCGCGGCACTCCCGGGGTCCGCGTCTAGCCGCTGCTGTCTTCGT 120
QY 146 GGGAGGCGCGTGTGAGTTCCGCGCTGTGGTCCGCAATGGGAGAGCGCGCAATTCGA 205
DB 121 GGGAGGCGCGTGTGAGTTCCGCGCTGTGGTCCGCAATGGGAGAGCGCGCAATTCGA 180
QY 206 CTCAGAACAGAGACGACCGCCCGTCCGACAGATAGTGGGATCGACACCCAGATA 265
DB 181 CTCAGAACAGAGACGACCGCCCGTCCGACAGATAGTGGGATCGACACCCAGATA 240
QY 266 TATTGCATAGCGCTTGTCCCTGTGTTTATCATGGGTCTCTTTGGCGTCTCATTTG 325
DB 241 TATTGCATAGCGCTTGTCCCTGTGTTTATCATGGGTCTCTTTGGCGTCTCATTTG 300
QY 326 CCACCTGTTTAAAGAAAGGCTATCGTTGTACAAAGAGAGAGCAAGATATCGAAGA 385
DB 301 CCACCTGTTTAAAGAAAGGCTATCGTTGTACAAAGAGAGAGCAAGATATCGAAGA 360
QY 386 GGAAGAGTTGAAAGATAGATTAATGATGAGTGTGAATGAAACACAGTACATCTTGG 445
DB 361 GGAAGAGTTGAAAGATAGATTAATGATGAGTGTGAATGAAACACAGTACATCTTGG 420
QY 446 GCAATCGTCCACTACATCATGAAATGAAGCAATGCTGATGCTCTTAAAGGCGATGCT 505
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Db 421 GCAAAATCGTCACATACATCATGAAATATGAAGCCGAATGCTGATCTCTAAAGCGATGGT 480
Qy 506 AGCAGATAAAGCGCTGATGATCTGAAAGCCCGTGTACCCCGACCCAGCAGCACCAGCGAGGCC 565
Db 481 AGCAGATAAAGCGCTGATGATCTGAAAGCCCGTGTACCCCGACCCAGCAGCACCAGCGAGGCC 540
Qy 566 GCGAGTGAGTCTCGGCGCTTTGTACACGAGGGGGGACCGCAGGGAAGACACGCTGTGTGGCCA 625
Db 541 GCGAGTGAGTCTCGGCGCTTTGTACACGAGGGGGGACCGCAGGGAAGACACGCTGTGTGGCCA 600
Qy 626 TCATCTGCATACGCTGGCGGTGTGTGTCGAGAGGATGTGTGTCATCGGTGTAGGCACAA 685
Db 601 TCATCTGCATACGCTGGCGGTGTGTGTCGAGAGGATGTGTGTCATCGGTGTAGGCACAA 660
Qy 686 GCGGTGGCACCTTTATAAGCCCACTAAACAGTCCAGAGAGAGCAGACACCGCGCCCAAGG 745
Db 661 GCGGTGGCACCTTTATAAGCCCACTAAACAGTCCAGAGAGAGCAGACACCGCGCCCAAGG 720
Qy 746 CGAGGTACGCTCTCTTTCTGTGTGGCAGATTTAGA- GTTACAAAAGTGAGAGCACAAGTCAA 804
Db 721 CGAGGTACGCTCTCTTTCTGTGTGGCAGATTTAGAGGTTTACAAAAGTGAGAGCACAAGTTAA 780
Qy 805 AC 806
Db 781 CC 782
```

```
RESULT 3
LOCUS BX423892 882 bp mRNA linear EST 01-MAY-2004
DEFINITION BX423892 Homo sapiens ADULT BRAIN Homo sapiens cDNA clone
CSODN002YB14 5-PRIME, mRNA sequence.
ACCESSION BX423892
VERSION BX423892.2 GI:46932572
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
1 (bases 1 to 882)
Li,W.B., Gruber,C., Jesse,J. and Polayes,D.
Full-length cDNA libraries and normalization
Unpublished (2001)
On May 13, 2003 this sequence version replaced gi:30655585.
Contact: Genoscope
Genoscope - Centre National de Sequencage
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo (dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library
was not normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
This sequence belongs to sequence cluster 2573.r
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?s=CS1AN001ZD08QPI&c=2573.r.
Location/Qualifiers
1..882
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSODN002YB14"
/tissue_type="ADULT BRAIN"
/dev_stage="adult"
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FEATURES
source
/clone_lib="Homo sapiens ADULT BRAIN"
/notes="Organ: brain; Vector: pCMVSPORT 6; 1st strand cDNA
was primed with a NotI-oligo (dT) primer. Five prime end
enriched, double-strand cDNA was digested with Not I and
cloned into the Not I and EcoRV sites of the pCMVSPORT 6
vector. Library was not normalized."
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## ORIGIN

```
Query Match 58.6%; Score 756.8; DB 5; Length 882;
Best Local Similarity 96.7%; Pred. No. 4.8e-194;
Matches 803; Conservative 9; Mismatches 13; Indels 5; Gaps 4;
Qy 14 CCGCGCGCTCCGAGCGGCTCGCTTCCGAGCGGGGACGCGGCGCTGGGGAGG 73
Db 1 CCGCGCGCTCCGAGCGGCTCGCTTCCGAGCGGGGACG-GNCGCCCTGGGGAGG 59
Qy 74 AGGCGGAAGGACGCGG-CGATGGCTCCGCGGGCACTCCCGGGGTCCCGCTCTAGCGG 132
Db 60 AGGCGGAASGANCGCGGCGATGGCTCCGCGGGCACTCCCGGGGTCCCGCTCTAGCGG 119
Qy 133 CTGCTGTCTTCGTGGGAGGCGCGGTGATTCGCGCGTGGTGGCTCCGAGCAATGGGAGCA 192
Db 120 CTGCTGTCTTCGTGGGAGGCGCGGTGATTCGCGCGTGGTGGCTCCGAGCAATGGGAGCA 179
Qy 193 GCGGCACATTCGACCTCCAGAACAGAGACGACCCCGTCCGAGCAATGCTGGGAATG 252
Db 180 GCGGCACATTCGACCTCCAGAACAGAGACGACCCCGTCCGAGCAATGCTGGGAATG 239
Qy 253 GACACCCAGAAATATATTCGATACCGCGCTTGTCTTCTTTATCATGGGTCTCTTTG 312
Db 240 GACACCCAGAAATATATTCGATACCGCGCTTGTCTTCTTTATCATGGGTCTCTTTG 299
Qy 313 GCGTCTCATTTGCGCACCTGCTTAAGAGAAAGGCTATCGTTGTACAAAGAGCAGAGC 372
Db 300 GCGTCTCATTTGCGCACCTGCTTAAGAGAAAGGCTATCGTTGTACAAAGAGCAGAGC 359
Qy 373 AAGATATCGAGAGGAAAGGTTGAAAGATAGATTAATGACAGTGTGAATGAACA 432
Db 360 AAGATATCGAGAGGAAAGGTTGAAAGATAGATTAATGAAATGACAGTGTGAATGAACA 419
Qy 433 GTGACACTGTTGGGCAAAATCGTCCACTACATCATGAAAAATGAAGCGAAATGCTGATGCT 492
Db 420 GTGACACTGTTGGGCAAAATCGTCCACTACATCATGAAAAATGAAGCGAAATGCTGATGCT 479
Qy 493 TAAAGGCGATGGTAGCAGATAACACCTGTATGATCTCTGAAAGCCCGTACCCCGAGCA 552
Db 480 TAAAGGCGATGGTAGCAGATAACACCTGTATGATCTCTGAAAGCCCGTACCCCGAGCA 539
Qy 553 CACGAGGAGCCCGCAGTGAGTCTGGGCGCTTGTCCAGCGGGGGAGCCGAGGAGC 612
Db 540 CACGAGGAGCCCGCAGTGAGTCTGGGCGCTTGTCCAGCGGGGGAGCCGAGGAGC 599
Qy 613 ACGTCTGTGGCCATCATCTGCATACGCTGGCGGTGTGTGAGAGGATGTGTGTCATC 672
Db 600 ACGTCTGTGGCCATCATCTGCATACGCTGGCGGTGTGTGAGAGGATGTGTGTCATC 659
Qy 673 GGTGTAGGCACAACCGGTGGCACTTTTATAAGCCCACTTAAAGTCCAGAGAGCAGAC 732
Db 660 GGTGTAGGCACAACCGGTGGCACTTTTATAAGCCCACTTAAAGTCCAGAGAGCAGAC 719
Qy 733 CACGCGCCCAAGGCGAGGTACCGTCTCTTCTGTGGCAGATTTAGAGTTACAAAAGTGG 792
Db 720 CACGCGCCCAAGGCGAGGTACCGTCTCTTCTGTGGCAGATTTAGAGTTAC-AAARKKG 778
Qy 793 AGCAAGTCAACACAGAGGAACCGAGAGCCCTGATGTCGTGTAGTGGG 842
Db 779 RGCAAGTCAACACAGAGGA--CGGGGAASCTGATKTYTGTAGTGGG 826
RESULT 4
LOCUS BM919548
DEFINITION AGENCOURT_6761913 NIH_MGC_120 Homo sapiens cDNA clone IMAGE:5748847
5', mRNA sequence.
ACCESSION BM919548
VERSION BM919548.1 GI:19369927
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
```



Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.  
1 (bases 1 to 1000)  
NIH-MGC <http://mgc.nci.nih.gov/>.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: [cgabbs-remail.nih.gov](mailto:cgabbs-remail.nih.gov)  
Tissue Procurement: Life Technologies, Inc.  
cDNA Library Preparation: Life Technologies, Inc.  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Agencourt Bioscience Corporation  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
Plate: LLAM12777 row: e column: 08  
High quality sequence stop: 643.  
Location/Qualifiers  
1..1000  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
/db\_xref="taxon:9606"  
/clone="IMAGE:5748847"  
/lab\_host="DH10B"  
/clone\_lib="NIH\_MGC\_120"  
/notes="Organ: pooled pancreas and spleen; Vector:  
pCMV-SPORT6; Site\_1: NotI; Site\_2: EcoRV (destroyed); RNA  
source anonymous pool of spleen and pancreas from 28 yo  
male. Library is oligo-dT primed and directionally cloned  
(EcoRV site is destroyed upon cloning). Average insert  
size 1.5 kb, insert size range 1-2.5 kb. Library is  
normalized and enriched for full-length clones and was  
constructed by C. Gruber (Invitrogen). Research Genetics  
tracking code 025. Note: this is a NIH\_MGC Library."

Query Match 56.3%; Score 726.8; DB 3; Length 1000;  
Best Local Similarity 95.9%; Pred. No. 7e-186;  
Matches 800; Conservative 0; Mismatches 24; Indels 10; Gaps 5;

QY 7 CGTCCGCGCCCGGCTCCGAGCGGCTCTGCTTCCCGAGCGCGGACGCGGCGCCCTG 66  
DB 2 CGATCAGCCCGCGCTCCGAGCGGCTCTGCTTCCCGAGCGCGGACGCGGCGCCCTG 61

QY 67 GCGGAGAGGCGGAGGAGCGCGCGATGCTCCGCGGCACTCCCGGGTCCGCGCTCC 126  
DB 62 GGGGAGAGGCGGAGGAGCGCGCGATGCTCCGCGGCACTCCCGGGTCCGCGCTCC 121

QY 127 TAGCCGCTGCTCTTCGTTGGAGGCGCGTGGTTCGCGCTGCTGGCTCCGAGCAATG 186  
DB 122 TAGCCGCTGCTCTTCGTTGGAGGCGCGTGGTTCGCGCTGCTGGCTCCGAGCAATG 181

QY 187 GGAGCAGCGGCACATTTGCACTCCAGAACAGAGACGACCCCGTCCGCCAGCAACGATCTG 246  
DB 182 GGAGCAGCGGCACATTTGCACTCCAGAACAGAGACGACCCCGTCCGCCAGCAACGATCTG 241

QY 247 GGAATGACACCCAGAAATATTCATACGCGCTTGTCCCTGTCTTTATCATGCGGTC 306  
DB 242 GGAATGACACCCAGAAATATTCATACGCGCTTGTCCCTGTCTTTATCATGCGGTC 301

QY 307 TCTTTGGCGTCTCATTTGGCACTCTTAAGAGAAAGGCTATCGTTGTACACAGAAG 366  
DB 302 TCTTTGGCGTCTCATTTGGCACTCTTAAGAGAAAGGCTATCGTTGTACACAGAAG 361

QY 367 CAGAGCAAGATATCGAAGAGGAAAGGTTGAAAGATAGAAATGAATGACAGTGTGAATG 426  
DB 362 CAGAGCAAGATATCGAAGAGGAAAGGTTGAAAGATAGAAATGAATGACAGTGTGAATG 421

QY 427 AAACAGTGAACATGTTGGGCAATCGTCCACTACATCATGAAAAATGAACGGAATCTG 486  
DB 422 AAACAGTGAACATGTTGGGCAATCGTCCACTACATCATGAAAAATGAACGGAATCTG 481

QY 487 ATGTCTTAAAGGCGATGGTAGCAGATAACAGCCCTGTATGATCCTTGAAAGCCCGCTGACCC 546

Db 482 ATGTCTTAAAGGCGATGGTAGCAGATAACAGCCCTGTATGATCCTGAAAGCCCGCTGACCC 541

QY 547 CAGACACACAGGAGGAGCCGCCAGTGTAGTCTCTGGGCTTTGTACACGAGGGGAGCGCCAG 606

Db 542 CCAGCACACAGGAGGAGCCGCCAGTGTAGTCTCTGGGCTTTGTACACGAGGGGAGCGCCAG 601

QY 607 GGAGACAGCTCTGTGGCCATCATCT-GCATACGGTGGGCGGTGTGTTCGAGAGGGATGTG 665

Db 602 GGAAGCACGCTGTGTGGCCATCATCTTNGCATACGGTGGGCGGTGTGTTCGAGAGGGATGTG 661

QY 666 TGTTCATCGGTGTAGGCAACAGCGGTGGCACTTTTATAAAGCCCACTAAACAAGTCCAGAGAG 725

Db 662 TGTTCATCGGTGTAGGCAACAGCGGTGGCACTTTTATAAAGCCCACTAAACAAGTCCAGAGAG 721

QY 726 AGCAGACACAGCGGCC--AAGGCGAGGTCAAGTCTCTTTCTGTGGCAG-----ATTAG 778

Db 722 AGCAGACACAGCGGCCAAGGCGAGGTCAAGTCTCTTTCTGTGGCAGATTAGA 781

QY 779 AGTTACAAAAGT-GGAGCACAGTCAAAACAGAA-GGAACGGAGAACGCTGATG 830

Db 782 AGTTACAAAAGTGGAGCACAGTCAAAACAGAAAGGAAGAACGCTNATG 835

RESULT 5  
BQ807844 620 bp mRNA linear EST 31-JUL-2002  
LOCUS NISC\_Kk10h07.y1 NCI\_CGAP\_Brn72 Macaca mulatta cDNA clone  
DEFINITION IMAGE:5331301 5', mRNA sequence.  
ACCESSION BQ807844  
VERSION BQ807844.1 GI:22032053  
KEYWORDS EST.  
SOURCE Macaca mulatta (rhesus monkey)  
ORGANISM Macaca mulatta  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Cercopithecoidea; Cercopithecinae; Macaca.  
1 (bases 1 to 620)  
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: [cgabbs-remail.nih.gov](mailto:cgabbs-remail.nih.gov)  
cDNA Library Preparation:  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium/LLNL  
DNA Sequencing by: National Institutes of Health Intramural  
Sequencing Center (NISC)  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
Plate: LLAM11840 row: O column: 14  
Seq primer: M13RP1 reverse primer (ABI).  
Location/Qualifiers  
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/organism="Macaca mulatta"  
/mol\_type="mRNA"  
/db\_xref="taxon:9544"  
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/tissue\_type="hypothalamus"  
/lab\_host="DH10B (phage-resistant)"  
/clone\_lib="NCI\_CGAP\_Brn72"  
/notes="Organ: brain; Vector: pCMV-SPORT6.1; Site 1: NotI;  
Site 2: EcoRV; Cloned unidirectionally. Primer: Oligo dT.  
Average insert size 2.2 kb. Constructed by Invitrogen.  
Note: this is a NCI\_CGAP Library."

FEATURES  
source  
1..620

ORIGIN  
Query Match 46.0%; Score 594.4; DB 5; Length 620;  
Best Local Similarity 97.4%; Pred. No. 5.9e-150;  
Matches 604; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 26 GGAGCGGCTCTGCTTCCCGAGCGCGGACGCGCGCCCTGGGGAGAGGGCGGAACGGA 85



1	GGAGCGGCTCTGCCTTCCGAGCGCGGACGCGCGCCCTGGGGAAAGAGGCGGAAGCGA	60
86	CGCGCGATGGCTCCGCGGGCACTCCCGGGGTCCGCGCTCCTAGCGCGTGTCTTGGT	145
61	CGCGCGATGGCTCTGCGGGCACTCCCGGGGTCCGCGCTCCTAGCGGTGTCTTGGT	120
146	GGGAGGCGCGTGAGTTCCGCGCTGGTGGCTCCGACAATGGGAGCAGCCGACATTGCA	205
121	GGGAGGCGCGTGAGTTCCGCGCTGGTGGCTCCGACAATGGGAGCAGCCGACATTGCA	180
206	CTCCAGAAACAGAGACGACCCCGTGGCCAGCAACGATACTGGGAATGGACACCCAGAATA	265
181	CTCCAGAAACAGAGACGACCCCGTGGCCAGCAACGATACTGGGAATGGACACCCAGAATA	240
266	TATTGCATACGGCTTGCTCCCTGTGTCTTTTATCATGGTCTCTTTGGGTCCTCATTTG	325
241	TATTGCATACGGCTTGCTCCCTGTGTCTTTTATCATGGTCTCTTTGGGTCCTCATTTG	300
326	CCACTGCTTAAAGAAGAGCTATCGTTGTATCAACAGAAGCAGACGAAGATATCGAAGA	385
301	CCACTGCTTAAAGAAGAGCTATCGTTGTATCAACAGAAGCAGACGAAGATATCGAAGA	360
386	GGAAAAGGTTGAAAAGATAGAAATGCAAGTGTGAATGAAAACAGTGCACCTGTTGG	445
361	AGAAAAGGTTGAAAAGATAGAAATGCAAGTGTGAATGAAAACAGTGCACCTGTTGG	420
446	GCAATCGTCCACTACATCATGAAAATGAAACGGAATCGTATGTCCTTAAAGGCGATGT	505
421	GCAATCGTCCACTACATCATGAAAATGAAACGGAATCGTATGTCCTTAAAGGCGATGT	480
506	AGCAGATAACAGCTGTATGATCTCTGAAAGCCCGTGACCCCGCAGCACACCAAGGAGGCC	565
481	AGCGGATAACAGCTGTATGATCTCTGAAAGCCCGTGACCCCGCAGCACACCAAGGAGGCC	540
566	GCCAGTGAGTCTCGGCTTGTGTCACAGGGGGGACGCCAGGAAGACGCTCTGTGGCCA	625
541	ACCCGTGAGTCTCGGCTTGTGTCACAGGGGGGACGCCAGGAAGACGCTCTGTGGCCA	600
626	TCATCTGCATACGGTGGGCG	645
601	TCATCTGCACACGGTGGGCG	620

## RESULT 6

LOCUS	BUI50311	874 bp	mRNA	linear	EST 03-SEP-2002
DEFINITION	AGENCOURT 8121018 Lupski dorsal root ganglion Homo sapiens CDNA clone IMAGE:6178627 5' mRNA sequence.				

**KEYWORDS**  
**SOURCE**

SOURCE: Homo sapiens (human)  
 ORGANISM: Homo sapiens  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
 Hominoidea; Homo.  
 Hominidae; Homo.  
 1 (base 1 to 974)  
 PROTEIN:

## FEATURES

RESULT 7  
DR004573

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1. .874
source
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6178627"
/sex="male"
/tissue_type="dorsal root ganglia"
/dev_stage="adult, 36 yr"
/lab_host="DH10B"
/clone_lib="Lupski dorsal ganglion"
/notes="Vector: PCW7-SPORT6 (Life Technologies); Site 1:
NotI; Site2: SalI; cDNA made by oligo-dT priming.
Directionally cloned using the following adaptors:
5'-TCGACCCAGCGCTCCG-3', and
5'-GACTAGTTTAGATCCGAGCGGCCCT(15)-3'. Size selected >
1 kb for average insert length 1.7 kb. This is a primary
library, non-amplified. Library constructed by Life
Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor
College of Medicine) and is available through Life
Technologies."

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## ORIGIN

Query Match	46.0%	Score 594.4	DB 5	Length 874
Best Local Similarity	98.9%	Pred. No. 6.4e-150		
Matches 609	Conservative 0	Mismatches 6	Indels 1	Gaps 1
Qy	179	GGCAATGGGAGCAGCGCCGACATTGCACTCCAGAACAGAGACGACCCGCTGCGCCACAGCAA	238	
Db	182	GTACATGGGAGCAGCGCCACATTGCNCTCCAGNACAGAGACGACCCGCTGCGCCACAGCAA	241	
Qy	239	CGATCTGGGAATGGACACCCAGAAATATATTGTCATACGGCCTTGTCCTCTGTGTTCTTTAT	298	
Db	242	CGATCTGGGAATGGACACCCAGAAATATATTGTCATACGGCCTTGTCCTCTGTGTTCTTTAT	301	
Qy	299	CATGGGTCTCTTTGGCGTCTCTCATTTTGCACCTGCTTTAAGAGAAAGGCTATCGTTGTAC	358	
Db	302	CATGGGTCTCTTTGGCGTCTCTCATTTTGCACCTGCTTTAAGAGAAAGGCTATCGTTGTAC	361	
Qy	359	AACAGAAAGCAGACAAAGATATCGAAGAGGAAAAGTTGAAAAGATAGAATTGAATGACAG	418	
Db	362	AACAGAAAGCAGACAAAGATATCGAAGAGGAAAAGTTGAAAAGATAGAATTGAATGACAG	421	
Qy	419	TGTGAATGAAGAACAGTGACACTGTTGGGGCAATCGTCCACTATCATCATGAAAATCAAGC	478	
Db	422	TGTGAATGAAGAACAGTGACACTGTTGGGGCAATCGTCCACTATCATGAAAATCAAGC	481	
Qy	479	GAATGCTGATGTTCTTAAAGGCGATGTGTAGCAGATAACAGCCTGTATGATCCTCAAAAGCCC	538	
Db	482	GAATGCTGATGTTCTTAAAGGCGATGTGTAGCAGATAACAGCCTGTATGATCCTCAAAAGCCC	541	
Qy	539	CGTGACCCCGCAGACACCGAGGAGCCCGCAGTGAGTCTTGGGCCCTTGTCAACAGGGGG	598	
Db	542	CGTGACCCCGCAGACACCGAGGAGCCCGCAGTGAGTCTTGGGCCCTTGTCAACAGGGGG	601	
Qy	599	GAGCCAGAGGGAAGCAGCTCTGTGGCCCATCATCTGCATACGGTGGGCGGTGTTGTCGAGAG	658	
Db	602	GAGCCAGAGGGAAGCAGCTCTGTGGCCCATCATCTGCATACGGTGGGCGGTGTTGTCGAGAG	661	
Qy	659	GGATGTGTGTCATCGGTGTAGGCAACAGCGGTGGCACTTTTATAAGGCCACTAACAGTTC	718	
Db	662	GGATGTGTGTCATCGGTGTAGGCAACAGCGGTGGCACTTTTATAAGGCCACTAACAGTTC	721	
Qy	719	CAGAGAGAGCAGACACCGGCCCAAGCGGAGGTGCA - CGGTCTCTTCTGTTGGCAGATTTA	777	
Db	722	CAGAGAGAGCAGACACCGGCCCAAGCGGAGGTGCA - CGGTCTCTTCTGTTGGCAGATTTA	781	
Qy	778	GAGTTACAAAGTGA	793	
Db	782	GAGTTACAAAGTGA	797	

RESULT 7  
DR004573

LOCUS  
 DEFINITION DR004573 577 bp mRNA linear EST 17-MAY-2005  
 TC104761 Human placenta, large insert, pCMV expression library Homo  
 sapiens cDNA clone TC104761.5, similar to Homo sapiens hypothetical  
 protein LOC253981 (LOC253981), mRNA sequence.

ACCESSION  
 VERSION DR004573.1 GI:66264446  
 KEYWORDS EST.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens

REFERENCE  
 AUTHORS Birkett,C., Cho,J., Gau,Y., Hamer,R., Kelly,S., Kovacs,K., Liu,L.,  
 Liu,X., Porter,J., Sachs,A., Shu,Y., Sun,Z., Wong,J., Wu,M.,  
 Zhang,X., Jay,G. and He,W.  
 1 (bases 1 to 577)  
 High-throughput cloning of full-length human cDNAs directly from  
 cDNA libraries optimized for large and rare transcripts  
 Unpublished (2005)  
 COMMENT Contact: Kovacs, KF  
 High Throughput cDNA Cloning  
 Origene Technologies, Inc. ( www.origene.com )  
 6 Taft Court, Suite 100, Rockville, MD 20850, USA  
 Tel: 301 340 3188  
 Fax: 301 340 8606  
 Email: cDNA@origene.com  
 This EST submission is part of an on-going human full-length  
 cloning project at Origene Technologies, Inc.  
 Please contact Origene for access.  
 Origene Technologies, Inc.  
 6 Taft Ct. Suite 100  
 Rockville, MD 20850  
 Tel: (301) 340-3188  
 http://www.origene.com  
 Seq primer: pCMV6 Spriime forward vector primer, Origene  
 Technologies Inc.

FEATURES  
 source  
 Location/Qualifiers  
 1..577  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /clone="TC104761"  
 /tissue\_type="Placenta"  
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 library"  
 /notes="Vector: pCMV6-XL4; Site 1: EcoR1; Site 2: Xho1/Sall  
 compatible end ligatio; Oligo-dT primed reverse  
 transcription optimized for large and GC rich mRNA  
 transcripts, cDNA size selection, optimized ligation for  
 large inserts into mammalian expression vector, random  
 clones selected for end sequence verification of  
 full-length genes"

ORIGIN  
 Query Match 44.2%; Score 570; DB 8; Length 577;  
 Best Local Similarity 99.7%; Pred. No. 2.5e-143;  
 Matches 570; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 51 GGACACGGCGCCCTGGGGAGGAGGCGAAGCGACGCGCGATGGTCCGCGGCACTC 110  
 DB 6 GGGCGCGCGCCCTGGGGAGGAGGCGAAGCGACGCGCGATGGTCCGCGGCACTC 65  
 QY 111 CCGGGGTCCGCGCTCTAGCGGCTGCTTCTTGTGGAGGCGCGTGGTTCGCCCTG 170  
 DB 66 CCGGGGTCCGCGCTCTAGCGGCTGCTTCTTGTGGAGGCGCGTGGTTCGCCCTG 125  
 QY 171 GTGGCTCCGGAACAATGGGAGCAGCCGCACATTGCATCTCCAGAACAGAGACGCCCGCTG 230  
 DB 126 GTGGCTCCGGAACAATGGGAGCAGCCGCACATTGCATCTCCAGAACAGAGACGCCCGCTG 185  
 QY 231 CCAGCAACGATAGTGGGAATGGACACCCAGATATATTGCATACGCGCTTGTCCCTGTG 290  
 DB 186 CCCAGCAACGATAGTGGGAATGGACACCCAGATATATTGCATACGCGCTTGTCCCTGTG 245

QY 291 TTCTTTATCATGGGTCTCTTTGGGCTCCTCATTTGCCACCTGCTTAGAAGAAAGGCTAT 350  
 DB 246 TTCTTTATCATGGGTCTCTTTGGGCTCCTCATTTGCCACCTGCTTAGAAGAAAGGCTAT 305  
 QY 351 CGTTGTACAAACAGACAGACAGCAAGATATCGAAGAGGAAAGGTTGAAAAGATAGAATTG 410  
 DB 306 CGTTGTACAAACAGACAGACAGCAAGATATCGAAGAGGAAAGGTTGAAAAGATAGAATTG 365  
 QY 411 AATGACAGTGTGAATGAAACAGTACACATCTGTTGGGCAAAATCGTCCACTACATCATGAAA 470  
 DB 366 AATGACAGTGTGAATGAAACAGTACACATCTGTTGGGCAAAATCGTCCACTACATCATGAAA 425  
 QY 471 AATGACAGTGTGAATGAAACAGTACACATCTGTTGGGCAAAATCGTCCACTACATCATGAAA 530  
 DB 426 AATGACAGTGTGAATGAAACAGTACACATCTGTTGGGCAAAATCGTCCACTACATCATGAAA 485  
 QY 531 GAAAGCCCTGTGACCCCGACACACAGGAGGCGCGCAGTGTGCTTGTGCG 590  
 DB 486 GAAAGCCCTGTGACCCCGACACACAGGAGGCGCGCAGTGTGCTTGTGCG 545  
 QY 591 CAGGGGGGAGCGCCAGGAGGAGCGTCTGTGG 622  
 DB 546 CAGGGGGGAGCGCCAGGAGGAGCGTCTGTGG 577

RESULT 8  
 DN948289  
 LOCUS  
 DEFINITION AGENCOURT 50711126 NCI CGAP Pr49 Rattus norvegicus cDNA clone  
 IMAGE:7932431 5', mRNA sequence.

ACCESSION  
 VERSION DN948289  
 KEYWORDS DN948289.1 GI:62971409  
 EST.  
 SOURCE Rattus norvegicus (Norway rat)  
 ORGANISM Rattus norvegicus

REFERENCE  
 AUTHORS NIH-MGC http://mgc.nci.nih.gov/  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
 JOURNAL Unpublished (1999)  
 COMMENT Contact: Daniela S. Gerhard, Ph.D.  
 Office of Cancer Genomics  
 National Cancer Institute / NIH  
 Bldg. 31 Rm10A07 Bethesda, MD 20892  
 Email: cgapbs-rc@mail.nih.gov  
 Tissue Procurement: Jeff Green/Patru Kondaiah, NCI.  
 cDNA Library Preparation: Life Technologies, Inc.  
 DNA Sequencing by: Agencourt Bioscience Corporation  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 http://image.llnl.gov  
 Plate: L1AM16355 row: k column: 21  
 High quality sequence stop: 792.  
 Location/Qualifiers  
 1..815  
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 /mol\_type="mRNA"  
 /db\_xref="taxon:10116"  
 /clone="IMAGE:7932431"  
 /sex="male"  
 /tissue\_type="ventral prostate, pool of 3-, 5-, and 7-days  
 post-castration"  
 /dev\_stage="adult, 11 week"  
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 /clone\_lib="NCI CGAP Pr49"  
 /notes="Organ: prostate; Vector: pCMV-SPORT6.1; Site 1:  
 NotI; Site 2: EcoRV; Cloned unidirectionally. Primer:  
 Oligo dT. Pool of 3 primary libraries: NCI CGAP\_Pr30  
 (ventral prostate from 11 wk male, 3 days

post-castration, average insert size 2 kb), NCI\_CGAP\_Pr40 (ventral prostate from 11 wk male, 5 days post-castration, average insert size 1.6 kb) and NCI\_CGAP\_Pr41 (ventral prostate from 11 wk male, 7 days post-castration, average insert size 2.5 kb). Constructed by Life Technologies/Invitrogen. Note: this is a NCI\_CGAP Library."

## ORIGIN

Query Match	42.9%;	Score 554.2;	DB 8;	Length 815;
Best Local Similarity	80.9%;	Pred. No. 5.3e-139;		
Matches 659;	Conservative 0;	Mismatches 153;	Indels 3;	Gaps 1;
Qy	19	CGGCTCCGGAGCGGCTCTGCGCTTCCCGAGGCGGGAGCGCGCGCCCTGGGGGAGAGGCG	78	
Db	1	CAGCCCTCGAGTTTCACTTACCTTGGGCTCGGACGTCGAGCCGGGCGGAGAGGAC	60	
Qy	79	GAAGCGACGGCGGCGATGGCTCCGGGGGCACTCCGGGGTCCGCGTCTTAGCCGCTGCTG	138	
Db	61	AGAGGGAATCTGGCGATGGCTCCGTTGGGGCACTCTCTGGGGTCTGCTGTGCTTGTGTTGG	120	
Qy	139	TCCTTCGTGGAGGGCGCGTGAAGTTTCGCGCTTGGTGGCTCCGGACAATGGGAGCAGCGCGCA	198	
Db	121	TGTTCTGTGGAGGGCGCTGTGAAGTTTCGCGCTGTGTAGCCCCGGACAACACTGTTAGCCGCA	180	
Qy	199	CATTGCACTCCAGAACAGAGACGACCCCGTC--GCCAGCAACGATATCTGGGAATGGAC	255	
Db	181	CGTTACACTCTCGAGCAGAGACAACGCGTCATTTACCCACAACACCTCGGAATGGAC	240	
Qy	256	ACCAGAAATATTGCATACGCGTCTGCTGTGTTCTTTATCATGGGTCTCTTTGGCG	315	
Db	241	ACCAGAAATACATCGCATATGTGCTTGTCCCTGTGTCTTCGTATGGGTCTTCTTGGTG	300	
Qy	316	TCCTCATTTGCGCACCTCTTAAAGAGAAAGCGCTATCGTTGTACAACAAGAACAGACGACAG	375	
Db	301	TCCTCATCTGCCACTTACTTTAAGAGAAAGCGCTATCGTTGTACAACAAGAGCGGAAACAGG	360	
Qy	376	ATATCGAAGAGGAAAGGTTGAAAGATAGAAATGAATGACAGTGTGAATGAAGAACAGTG	435	
Db	361	AAGTTGAAGAGGAAAGGTGAAAGATAGAGTTGAAATGACAGTATAAATGAGAACAGTG	420	
Qy	436	ACACTGTTGGGCAATCGTCACATFACATCATGAAATAAGAGCAATGCTGTATGTCCTTAA	495	
Db	421	ACACCGTTGGGCAATTTGTCCACTATATATGAATAAATGAAGCAATGACAGACATTTTGA	480	
Qy	496	AGGCGATGGTAGCAGATAACAGCGCTGATGATCTCGAAAGCCCGTGACCCCCAGCACAC	555	
Db	481	AAGCTATGGTAGCTGATAACAGCATGTTGATGTTGAAAGCCCTGTCACTCTCTAGCACAC	540	
Qy	556	CAGGAGCCCGCAGTAGTGCTTGGGCGTTTGTACCAAGGGGGAGCCGAGGAGACAG	615	
Db	541	CAGGAGCCCACTGTGAGTCCGGGGCCCTGTTCACCAAGGGGGCCACCCCAAGGGAAGCATG	600	
Qy	616	TCGTGGGCCCATCATCTGCATACGGTGGGCGGTGTTGTCGAGAGGGAATGTGTGTCATCGGT	675	
Db	601	TCGTGGGACACCATCTTTCACACAGTGGGAGGTGTTGTTGAACGGGACGTGTGCCAGCGCT	660	
Qy	676	GTAGGCAACAAGCGGTGGCACTTTATAAGGCCACTTAAACAAGTCAGAGAGAGCAGCACAC	735	
Db	661	GTAGGCAACAAGCGATGGCACTTCAATAAACCCTACCAACAAGACCAAGAGAGCGCGCTTC	720	
Qy	736	GGCGCCAAGGGAGGTCAACGCTCTTCTGTGTGGCAGATTAGAGTTTACAAAAGTGGAGC	795	
Db	721	GGCGCAAGAAGGGAGGTCACTGTCTCTCTGTGGCAGGTTTCAGAGTCAAAAAGTAGAGC	780	
Qy	796	ACAAGTCAAAACAGAGAAACGGAGAGCCTGATG	830	
Db	781	ACAAGTCAAAACAGAGAGCGCAGAGCTTGATG	815	

RESULT 9  
BP438847  
LOCUS

DEFINITION	BP438847 full-length enriched swine cDNA library, adult lung Sus scrofa cDNA clone UNG010079F11 5', mRNA sequence.
ACCESSION	BP438847
VERSION	BP438847.1 GI:40428914
KEYWORDS	EST.
SOURCE	Sus scrofa (pig)
ORGANISM	Sus scrofa
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Suina; Suidae; Sus
AUTHORS	1 (bases 1 to 684) Uenishi,H., Eguchi,T., Suzuki,K., Sawazaki,T., Toki,D., Shinkai,H., Okumura,N., Hamasama,N. and Awata,T.
TITLE	PRDE (Pig EST Data Explorer): construction of a database for ESTs derived from porcine full-length cDNA libraries
JOURNAL	Nucleic Acids Res. 32 (1), D484-D498 (2004)
PUBLISHED	14681463
COMMENT	Contact: Hirohide Uenishi Animal Genome Laboratory, Genome Research Department National Institute of Agrobiological Sciences 2 Ikenodai, Tsukuba, Ibaraki 305-8602, Japan Tel: +81-29-838-8627 Fax: +81-29-838-8627 Email: huenishi@affrc.go.jp EST project with full-length enriched cDNA libraries carried out in Animal Genome Research Project (Japan) by National Institute of Agrobiological Sciences and STAFF-Institute Single pass sequencing of clones derived from oligo-capped cDNA library Vector sequences were eliminated by RepeatMasker version 2002/07/13 and crossmatch version 0.990319 Low quality bases were trimmed based on the quality values.

**FEATURES**

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1. 684
/organism="Sus scrofa"
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/clone="LNG010079F11"
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/clone_lib="full-length
lung"
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## ORIGIN

	Query Match	41.7%; Score 538.2; DB 3; Length 684;	
	Best Local Similarity 86.9%; Pred. No. 1.le-134;		
	Matches 591; Conservative 0; Mismatches 89; Indels 0; Gaps 0;		
Qy	38	CCTTCCCGAGCGGGGACGCCGGGCCCTGGGGAGGAGGGCGAAGCACCGCGGCATGGC	97
Db	5	CCTATTGGAGCCCGGAGCGCGCACCCCGGGGAGGAGGGCGAAGACCGCGGGATGGC	64
Qy	98	TCCGCGGGCACTCCCGGGGTCCGCGCTCTAGCGCGTCGTCTTCTCGTGGGAGCGCGGT	157
Db	65	TCTCGGGGACATCCCGGGGTCCGCGCTCTCGCGCTGCTGTCTCGTGGGAGCGCGGT	124
Qy	158	GAGTTCCGCGCTGGTGCTCCGGACATGGGAGCGAGCGCACATTGGACATCCGAACAGA	217
Db	125	GAGTTCCGCACTCGTAGCCCCGACAAATGGTGGCAGCCGCATATTACATTCGGAACCAA	184
Qy	218	GAGCACCCGTCGCCAGCAACGATACTGGGATGGACACCAGAAATATATTGCATACGC	277
Db	185	GAGCAGCCCTCACCCAACAACAACTGGGAATGGACACCCAGATATATFCGGGTATGC	244
Qy	278	GCTTGTCCCCTGTGTTCTTTATCATGGGTCTTTTGGGGTCTCATTTTGCACCTGCTTAA	337
Db	245	GCTCGTCCCCTGTGTTCTTTATCATGGGTCTTTTGGGGTCTCATCTTGCACCTGCTTAA	304
Qy	338	GAAGAAAGGCTATCGTTGTATAACAAGACAGACGAAGATATCGAAGAGGAAAGGTTGA	397
Db	305	GAAGAAAGGTTATCGTTGTATCAACAGAAAGCCGAGCAAGAAGTGGNAGAGGAAAGGTTGA	364
Qy	398	AAAGATAGAAATTGAATGACAGTGTGAATGAAAACAGTGACACTGTTGGGCAAAATCGTCCA	457



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/clone="LIB38534_30_A09"
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/clone_lib="LIB38534"
/note="Vector: pSPORT1; Site_1: Sali; Site_2: NotI"

ORIGIN
Query Match      37.1%; Score 479.6; DB 8; Length 626;
Best Local Similarity 86.2%; Pred. No. 9.3e-119;
Matches 530; Conservative 0; Mismatches 85; Indels 0; Gaps 0;

Qy 63 CCTGGGGAGAGGCGGAGGAGCGCGCGATGCTCCGGGGCACTCCCGGGTCCGCC 122
Db 12 CCCCAGGAGGAGGCGGAGGAGGCGGCCATGCGCCCGGTGGGAGCTCTCGGGTCCGG 71
Qy 123 GTCTAGCCGCTGCTGCTGCTGGAGGCGCGTGGAGTTCGCCGCTGCTGGCTCCGGAC 182
Db 72 GTCTGCGCGCGCTGCTGCTGCTGGAGGCGCACCGCGAGTTGCGCGCTGGTGGCCCCGGAC 131
Qy 183 AATGGGAGCAGCCGCCACATTCACATCCAGAACAGAGACGACCCCGTCGCCAGCAACGAT 242
Db 132 ATTGGTGCAGCCACAGTTGCATCTCAGGACAGAGACGCCCGGAGCCCACTAACAT 191
Qy 243 ACTGGGAATGACACCCAGAAATATATTGCATACCGCGCTGTCCTGTTCTTTATCATG 302
Db 192 ACTGGGAATGACACCCAGAAATATATCGGTATGCTTGTCCCTGTCCTGTTCTTCATCATG 251
Qy 303 GGTCTCTTGGCGTCTCATTTGCGACCTGCTTAAAGAAAGGCTATCGTTAGCAACA 362
Db 252 GGTCTCTTGGTGTCTCATCTGTCACCTGCTTAAAGAAAGGCTATCGTTAGCAACA 311
Qy 363 GAAGCAGACGAAATATCGAAGAGAGAAAGGTTCAAAAGATAGAAATGAATGACAGTGTG 422
Db 312 GAAGCCGACAGAGGTGGAGAGAGAGAGGTTGAAAGATAGAGTTGAATGACAGTGTG 371
Qy 423 AATGAAACAGTGCACGTGTTGGGCAATCGTCCATCATCATGATGAAATAATGAAGCGAAT 482
Db 372 AATGAAATAGTGACACCGTTGGGCGAGATTGTCAGTACATCATGAAATAATGAAGCAAC 431
Qy 483 GCTGATCTTAAAGGCGATGGTAGCAGATACAGCCTGATGATCTCTGAAAGCCCCGTG 542
Db 432 GTTGATGTTTAAAGGCAATGGTAGCAGATACAGCCTGGGGGACCCCTGAAAGCCCTGTG 491
Qy 543 ACCCCAGCAGCACCAGGAGGCCGCCAGTAGTCTCTGGGCTTTGTCCACAGGGGGGACG 602
Db 492 ACTCCAGCACTCTGGAGGCCGCCCTGTGAGCCCGGGGCCCTTGTCCCGAGGGGACC 551
Qy 603 CCAGGGAAGCAGCTCTGTGGCCATCATCTGCATACGGTGGGCGGTGTTGTGAGAGGGAT 662
Db 552 CCAGGAAACACATCTATGSCCACCATTACACACAGTANGAGGTGCTGTTGAGAGGGAC 611
Qy 663 GTGTGTCATCGGTGT 677
Db 612 GTGTGTCATCGGTGT 626
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```

RESULT 12
BI689796
LOCUS
DEFINITION
603316010F1 NCI_CGAP_Mam6 Mus musculus cDNA clone IMAGE:5355962 5',
mRNA sequence.
ACCESSION
BI689796
VERSION
BI689796.1 GI:15652425
KEYWORDS
EST.
SOURCE
Mus musculus (house mouse)
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 (bases 1 to 795)
AUTHORS
NIH-MGC http://mgc.nci.nih.gov/.
```

```

TITLE
JOURNAL
COMMENT
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM1905 row: c column: 03
High quality sequence stop: 717.
FEATURES
Location/Qualifiers
1..795
/organism="Mus musculus"
/mol_type="mRNA"
/strain="FVB/N"
/db_xref="taxon:10090"
/clone="IMAGE:5355962"
/sex="female, virgin"
/tissue_type="infiltrating ductal carcinoma"
/dev_stage="5 months"
/lab_host="DH10B"
/clone_lib="NCI_CGAP Mam6"
/note="Organ: mammary; Vector: pCMV-SPORT6; Site_1: Sali;
Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT.
Library constructed by Life Technologies. Investigator
providing samples: Jeffrey Green, M.D., NIH"

ORIGIN
Query Match      35.6%; Score 460.2; DB 3; Length 795;
Best Local Similarity 79.4%; Pred. No. 1.8e-113;
Matches 620; Conservative 0; Mismatches 153; Indels 8; Gaps 6;

Qy 92 GATGGCTCCGGGGCACTCCC-GGGGTCCGCGCTCTAGCGCTGCTGCTTCGTGGAG 150
Db 17 GATGGCTCTGTGGGGACTCCCGGGGGCCGCTGTGCTTCTCATGTGTCGTGGAG 76
Qy 151 GCGCGGTGAGTTCGCCCTGCTGCTCCGACAAATGGGAGCAGCGCACATTCACCTCCA 210
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```

National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: [cgapbs-r@mail.nih.gov](mailto:cgapbs-r@mail.nih.gov)  
Tissue Procurement: Jeffrey Green M.D.  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
Plate: LLAM1905 row: c column: 03  
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Site\_2: NotI; Cloned unidirectionally. Primer: Oligo dT.  
Library constructed by Life Technologies. Investigator  
providing samples: Jeffrey Green, M.D., NIH"

ORIGIN

Query Match 35.6%; Score 460.2; DB 3; Length 795;  
Best Local Similarity 79.4%; Pred. No. 1.8e-113;  
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Qy 151 GCGCGGTGAGTTCGCCCTGCTGCTCCGACAAATGGGAGCAGCGCACATTCACCTCCA 210  
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LOCUS   BY754410
DEFINITION BY754410 RIKEN full-length enriched, osteoclast-like cell Mus
MUSCULUS CDNA clone 1420039H17 5', mRNA sequence.
ACCESSION BY754410
VERSION   BY754410.1 GI:27186339
KEYWORDS EST.
SOURCE   Mus musculus (house mouse)
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Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muroidae; Muridae; Murinae; Mus.
1 (bases 1 to 680)
Okazaki,Y., Furuno,M., Kasukawa,T., Adachi,J., Bono,H., Kondo,S.,
Nikaido,I., Osato,N., Saito,R., Suzuki,H., Yamanaka,I.,
Kiyosawa,H., Yagi,K., Tomaru,Y., Hasegawa,Y., Nogami,A.,
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Batalov,S., Beisel,K.W., Blake,J.A., Bradt,D., Brusic,V.,
Chothia,C., Corbani,L.E., Cousins,S., Dalia,E., Dragani,I.A.,
Fletcher,C.F., Forrest,A., Frazer,K.S., Gaasterland,T.,
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Itoh,M., Kagawa,I., Miyazaki,A., Sakai,K., Sasaki,D., Shibata,K.,
Shingawa,A., Yasunishi,A., Yoshino,M., Waterston,R., Lander,E.S.,
Rogers,J., Birney,E. and Hayashizaki,Y.
Analysis of the mouse transcriptome based on functional annotation
of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)
1246851
Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
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The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suenhiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gs.c.riken.jp, URL: http://genome.gsc.riken.jp/
Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Carninci,P.,

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Fukuda,S., Hashizume,W., Hayashida,K., Hirozane,T., Hori,F.,
Imotani,K., Ishii,Y., Itoh,M., Kagawa,I., Kawai,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohnato,N., Saito,R., Sakazume,N.,
Sano,H., Sasaki,D., Sato,K., Shibata,K., Shiraki,T., Tagami,M.,
Takeda,Y., Waki,K., Watahiki,A., Muramatsu,M. and Hayashizaki,Y.
Direct Submission
Computational Analysis of Full-Length Mouse cDNAs Compared with
Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new
genes. Genome Res. 10 (10), 1617-1630 (2000)
RIKEN integrated sequence analysis (RISA) system--384-Format
sequencing pipeline with 384 multipillar sequencer. Genome Res.
10 (11), 1757-1771 (2000)
Computer-based methods for the mouse full-length cDNA
encyclopedia: real-time sequence clustering for construction of a
nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
cDNA library was prepared and sequenced in Mouse Genome
Encyclopedia Project of Genome Exploration Research Group in Riken
Genomic Sciences Center and Genome Science Laboratory in RIKEN.
Division of Experimental Animal Research in Riken contributed to
prepare mouse tissues.
Tissues were provided by Takashi Ishikawa ( Department of Surgery
2 Yokohama City University 3-9 Fukuura, Kanazawa-ku, Yokohama
236-0004 Japan ) whose assistance we gratefully acknowledge.
Please visit our web site (http://genome.gsc.riken.go.jp) for
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VERSION BI658107.1 GI:15572343
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SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE
AUTHORS NTH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabs-r@mail.nih.gov
Tissue Procurement: Lothar Hennighausen Ph.D., Priscilla Furth
Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: The I.M.A.G.E. Consortium (LLML)
Distribution by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLML at:
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Library constructed by Life Technologies. Investigators
providing samples: Lothar Hennighausen/Priscilla Furth.
NIH Reference for transgenic model: Li et al., Cell Growth
and Differentiation 7, 3-11 (1996)."
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Query Match 35.2%; Score 454.2; DB 3; Length 757;  
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ACCESSION BY754598
VERSION BY754598.1 GI:27186642
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 672)
Okazaki.Y., Furuno.M., Kasukawa.T., Adachi.J., Bono.H., Kondo.S.,
Nikaido.I., Osato.N., Saito.R., Suzuki.H., Yamana.K.I.,
Kiyosawa.H., Yagi.K., Tomaru.Y., Hasegawa.Y., Nogami.A.,
Hume.D.A., Quackenbush.J., Baldarelli.R., Hill.D.P., Bult.C.,
Batalov.S., Beisel.K.W., Blake.J.A., Bradt.D., Brusic.V.,
Chothia.C., Corbani.L.E., Cousins.S., Dalla.E., Dragani.T.A.,
Fletcher.C.F., Forrest.A., Frazer.K.S., Gaasterland.T.,
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Gustincich.S., Hirokawa.N., Jackson.I.J., Jarvis.E.D., Kanai.A.,
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Db 244 ATACTGGGAATGGACACCCAGAAATATATTCGATACGCGCTTGCTCCCTGTGTTCTTTATCA 303  
QY 301 TGGGTCTCTTTGGCGTCTCATTTGCCACCTGC---TTAAGAGAGAAAGGCTATCGTTGTA 357  
Db 304 TGGGTCTCTTTGGCGTCTCATTTNGCCAMCTNGCTTNAAGAGAAAGGCTATCGTTGTA 363  
QY 358 CAACAGAAAGCAGACGACAGATATCGAAGAGG--AAAAGCTTGAAGATAGAAATCAATGAC 416  
Db 364 CAACAGAAAGCAGACGACAGATATCGAAGAGAAAGGTTGAAGATAGAAATGAC 423  
QY 417 AGTGTGAATGAAACAGTGACACTGTTGGGGAATCTCCATCATCATCATGAAATGAA 476  
Db 424 AGTGTGAATGAAACAGTGACACTGTTGGGCAAAATCTCCACTACATCATGAAATGAA 483  
QY 477 GCGAATGCTGATGCTTTAAAGGCGATGGTAGAGATTAACAGCCCTGTATGATCCTGAAAGC 536  
Db 484 GCGAATGCTGATGCTTTAAAGGCGATGGTAGAGATTAACAGCCCTGTATGATCCTGAAAGC 543  
QY 537 CCGGTGACCCCGCAGCACACAGGAGCGCCGCGAGTGAGTGCTTGGGCCCTTTGTCAACAGGG 596  
Db 544 CCGGTGACCCCGCAGCACACAGGAGCGCCGCGAGTGAGTGCTTGGG--CTTTGTCAACAGGG 602  
QY 597 GGGACGCCAGGAAGCAAGTCTGTGGCCATCATCTGCATACGTTGGGCGGTGTTGTGAG 656  
Db 603 GGGACGCCAGGAAGCAAGTCTGTGGCCATCATCTGCATACGTTGGGCGGTGTTGTGAG 662  
QY 657 AGGATGTGTGTCATCGGTGAGGCAACAGCGGTGGGCACTTTATAAGCCCACTTAACAG 716  
Db 663 AGGATGTGTGTCATCGGTGAGGCAACAGCGGTGGGCACTTTATAAGCCCACTTAACAG 722  
QY 717 TCCAGAGAGACAGACCCACGCGCGCAAGGCGAGGTACGCGTCTCTTTCTGTTGGCAGATTT 776  
Db 723 TCCAGAGAGACAGACCCACGCGCGCAAGGCGAGGTACGCGTCTCTTTCTGTTGGCAGATTT 782  
QY 777 AGAGTTACAAAAGTGGAGCAAAAGTCAACAGAGAAACGAGAACGCTGATGTCGTGTT 836  
Db 783 AGAGTTACAAAAGTGGAGCAAAAGTCAACAGAGAAACGAGAACGCTGATGTCGTGTT 842  
QY 837 AGTGGGGCTGAAACCGTCAATGGGAGGTCCGCGCAACACCTGTGAAGAGAGACGAGT 896  
Db 843 AGTGGGGCTGAAACCGTCAATGGGAGGTCCGCGCAACACCTGTGAAGAGAGACGAGT 902  
QY 897 GGCACAGAGTAGCAGGTGAGCCGTTGTTGGTGACATTTGGGGCAGAGTGGTGCAGGGT 956  
Db 903 GGCACAGAGTAGCAGGTGAGCCGTTGTTGGTGACATTTGGGGCAGAGTGGTGCAGGGT 962  
QY 957 GAGGAGAAAGTACTTTGGAGCCTCCAGGTGCTGTGGCAGCATAGGAATGGTATTTGACAG 1016  
Db 963 GAGGAGAAAGTACTTTGGAGCCTCCAGGTGCTGTGGCAGCATAGGAATGGTATTTGACAG 1022  
QY 1017 GGAAGTGGGAGAGCTTTCTTGAACCCAGGAAGCTGAGGGGGGCTGAACTGATTTACTTG 1076  
Db 1023 GGAAGTGGGAGAGCTTTCTTGAACCCAGGAAGCTGAGGGGGGCTGAACTGATTTACTTG 1082  
QY 1077 TCTGCCCTAGAGCTTTCTTGAAGAAAGTCAAAAATTTAGTGCCTCCAGGGGCTTGGCCTGT 1136  
Db 1083 TCTGCCCTAGAGCTTTCTTGAAGAAAGTCAAAAATTTAGTGCCTCCAGGGGCTTGG--CTGT 1141

QY 1137 GTGATAATGAGGATAGAGGATTACTTGTGAGGCAATCTGGCATGTGGGATTTGTGGCAA 1196  
DB 1142 GTGATAATGAGGATAGAGGATTACTTGTGAGGCAATCTGGCATGTGGGATTTGTGGCAA 1201  
QY 1197 ACTAGAAATTCACATCCACCCACCATATATAGGCTTGCATTACACGAGGCGAGAAAGCACCTA 1256  
DB 1202 ACTAGAAATTCACATCCACCCACCATATATAGGCTTGCATTACACGAGGCGAGAAAGCACCTA 1261  
QY 1257 GTGTGCTGCATCTTCTTACGCAAAAAA 1291  
DB 1262 GTGTGCTGCATCTTCTTACGCAAAAAAAGACAAA 1296

## RESULT 2

US-10-004-860-56  
; Sequence 56, Application US/10004860  
; Patent No. 6914047  
; GENERAL INFORMATION:  
; APPLICANT: Young et al.  
; TITLE OF INVENTION: 207 Human Secreted Proteins  
; FILE REFERENCE: P2007P1  
; CURRENT APPLICATION NUMBER: US/10/004,860  
; CURRENT FILING DATE: 2001-12-07  
; Prior Application removed - See File Wrapper or Palm  
; NUMBER OF SEQ ID NOS: 1227  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 56  
; LENGTH: 1603  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (328)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (336)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (341)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (788)  
; OTHER INFORMATION: n equals a,t,g, or c  
; US-10-004-860-56

Query Match 92.7%; Score 1196.6; DB 3; Length 1603;  
Best Local Similarity 97.9%; Pred. No. 0;  
Matches 1268; Conservative 5; Mismatches 13; Indels 9; Gaps 6;  
QY 1 CCCACGGCTCCGGCCCGCGCTCCGAGAGGCTCTGCTTCCGAGCGGGAGCGGC 60  
DB 7 CCCACGGCTCCGGCCCGCGCTCCGAGAGGCTCTGCTTCCGAGCGGGAGCGGC 64  
QY 61 GCCCTGGGGAGGAGGCGAGCGAGCGCGGATGGCTCCGCGGCACTCCCGGGTCCG 120  
DB 65 GCCCTGGGGAGGAGGCGAGCGAGCGCGGATGGCTCCGCGGCACTCCCGGGTCCG 123  
QY 121 CCGTCTTAGCGCTGCTGCTTCTTGTGGAGCGCGCGCTGAGTTCCCGCTGCTGCTCCGG 180  
DB 124 CCGTCTTAGCGCTGCTGCTTCTTGTGGAGCGCGCGCTGAGTTCCCGCTGCTGCTCCGG 183  
QY 181 ACAATGGAGGAGCGCGCACATTTGCACTCCAGAACAGAGACGACCCCTGCGCCACGCAACG 240  
DB 184 ACAATGGAGGAGCGCGCACATTTGCACTCCAGAACAGAGACGACCCCTGCGCCACGCAACG 243  
QY 241 ATACTGGGAATGGACACCCAGAAATATATTCATACGGCTGCTGCTTCTTTATCA 300  
DB 244 ATACTGGGAATGGACACCCAGAAATATATTCATACGGCTGCTGCTTCTTTATCA 303

## RESULT 3

US-09-949-016-5115  
; Sequence 5115, Application US/09949016  
; Patent No. 6812339

QY 301 TGGGTCTCTTTGGCGTCTCTCATTTGCCACCTGC---TTAAGAAAGAAAGGCTATCGTTGTA 357  
DB 304 TGGGTCTCTTTGGCGTCTCTCATTTNGCMTNGCTTAAAGAAAGAAAGGCTATCGTTGTA 363  
QY 358 CAACAGAGCAGAGCAGAGATATCGAAGAGG-AAAGGCTTGAAGAGATAGAAATCAATGAC 416  
DB 364 CAACAGAGCAGAGCAGAGATATCGAAGAAAGAAAGGTTGAAGAGWTAGRAATGAAAGAC 423  
QY 417 AGTGTGAATGAAAAACAGTGACACTGTTGGGCAATCGTCCACATACATCATGAAAAATGAA 476  
DB 424 AGTGTGAATGAAAAACAGTGACACTGTTGGGCAATCGTCCACATACATCATGAAAAATGAA 483  
QY 477 GCGAATGCTGATGCTTTAAAGGCGATGTTAGACAGATAACAGCCTGTATGATCTCTGAAGC 536  
DB 484 GCGAATGCTGATGCTTTAAAGGCGATGTTAGACAGATAACAGCCTGTATGATCTCTGAAGC 543  
QY 537 CCGTGAACCCCGAGCAGCAGCAGGAGCCCGCAGTGAGTCTTGGGCTTTGTACCCAGGG 596  
DB 544 CCGTGAACCCCGAGCAGCAGCAGGAGCCCGCAGTGAGTCTTGGG-CTTTGTACCCAGGG 602  
QY 597 GGGACGCCAGGGAAGCAGCTCTGTGGCCATCATCTGCATACGGTGGGCGGTGTTGTGAG 656  
DB 603 GGGACGCCAGGGAAGCAGCTCTGTGGCCATCATCTGCATACGGTGGGCGGTGTTGTGAG 662  
QY 657 AGGATGTGTGTCATCGTGTAGGCAACAGCGGTGGCACTTTTATAAAGCCCACTAACAG 716  
DB 663 AGGATGTGTGTCATCGTGTAGGCAACAGCGGTGGCACTTTTATAAAGCCCACTAACAG 722  
QY 717 TCCAGAGAGAGCAGACCCAGCGCCAGGAGGTGACGGTCCCTTCTGTGGGAGATTT 776  
DB 723 TCCAGAGAGAGCAGACCCAGCGCCAGGAGGTGACGGTCCCTTCTGTGGGAGATTT 782  
QY 777 AGAGTTACAAAAGTGGAGCAAAAGTCAAAAGCAAGAAAGGAGAAAGCCTGATCTGTT 836  
DB 783 AGAGTTACAAAAGTGGAGCAAAAGTCAAAAGCAAGAAAGGAGAAAGCCTGATCTGTT 842  
QY 837 AGTGGGCTCAAAACCGTCAATGGGAGGTCCCGGCAACACCTGTGAAGAGAGAAAGCGAGT 896  
DB 843 AGTGGGCTCAAAACCGTCAATGGGAGGTCCCGGCAACACCTGTGAAGAGAGAAAGCGAGT 902  
QY 897 GGCACAGAGTAGCAGGTGAGCGCTGTTTGGTGACATTTGGGGCAGAGTGGTGCAGGT 956  
DB 903 GGCACAGAGTAGCAGGTGAGCGCTGTTTGGTGACATTTGGGGCAGAGTGGTGCAGGT 962  
QY 957 GAGGAGAAAGTACTTGGAGGCTCCAGGTCTGGGAGCATAGCAATGGTATTGTGACAG 1016  
DB 963 GAGGAGAAAGTACTTGGAGGCTCCAGGTCTGGGAGCATAGCAATGGTATTGTGACAG 1022  
QY 1017 GGAAGTGGGAGAGCTTTCTTGACCCAGGAAGACTGAGGGGAGCTGAACATGATTACTTG 1076  
DB 1023 GGAAGTGGGAGAGCTTTCTTGACCCAGGAAGACTGAGGGGAGCTGAACATGATTACTTG 1082  
QY 1077 TCTGCTTAGAGCTTCTTGTAAAGAGTCAAAAGTCTAGTGTGCTCCAGGGGCTTGGCTGT 1136  
DB 1083 TCTGCTTAGAGCTTCTTGTAAAGAGTCAAAAGTCTAGTGTGCTCCAGGGGCTTGG-CTGT 1141  
QY 1137 GTGATAATGAGGATAGAGGATTACTTGTGAGGCAATCTGGCATGTGGGATTTGTGGCAA 1196  
DB 1142 GTGATAATGAGGATAGAGGATTACTTGTGAGGCAATCTGGCATGTGGGATTTGTGGCAA 1201  
QY 1197 ACTAGAAATTCACATCCACCCACCATATAGGCTTGCATTACACGAGGCGAGAAAGCACTA 1256  
DB 1202 ACTAGAAATTCACATCCACCCACCATATAGGCTTGCATTACACGAGGCGAGAAAGCACTA 1261  
QY 1257 GTGTGCTGCATCTTCTTACGCAAAAAA 1291  
DB 1262 GTGTGCTGCATCTTCTTACGCAAAAAAAGACAAA 1296

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; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASES, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CU001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5115
; LENGTH: 1558
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-5115

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Query Match	5.6%	Score 72.6;	DB 3;	Length 1558;
Best Local Similarity	59.0%;	Pred. No. 1.5e-10;		
Matches 148;	Conservative 0;	Mismatches 94;	Indels 9;	Gaps 1;
QY	263	ATATATTGCATACGCGCTTGTCCCTGTGTGTTCTTTTATCATATGGTCTCTTTGGCGTCCCTCAT	322	
Db	803	ATATATGCTCTTCTCTGTCTGTGTCTTCTTCTCTATGGGCTGTGAGCTTCATGAT	862	
QY	323	TTGCGACCTGCTTAAGAAGAAGGCTATCGTTGTATCAACAGAAGCAGAGCAAGATATCGA	382	
Db	863	CTGCCACGTGCTCAAGAAGAAGGGCTATCCGCTGCCGACCGTCTGAGGGGCTCTGAGCCCTGA	922	
QY	383	AGAGGAAAAAGGTTGAAAAAGATAGAAATTTGAATGCAGTGTGAATGAAAAACAGTGACACTGT	442	
Db	923	CGATGCCACGCTTCAGCCCTCGAGGACGATGACATG-----AATGAGGACACAGT	973	
QY	443	TGGGCAAAATCGTCCACTATCATCATGAAAAATGAAGCGAATGCTCATGTCTTAAAGGCGAT	502	
Db	974	AGAGAGAAATTTGTCGTGCATCATCCAGAATGAAGCCAAATGCTGAGGCCCTTGAAGSGAGAT	1033	
QY	503	GGTAGCAGATA	513	
Db	1034	GCTGGGGGACA	1044	

```

RESULT 4
US-09-774-528-2
; Sequence 2, Application US/09774528
; Patent No. 6743619
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Zhou, Ping
; APPLICANT: Goodrich, Ryle
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Ren, Felyan
; APPLICANT: Zhang, Jie
; APPLICANT: Zhao, Qing A.
; APPLICANT: Yang, Yonghong
; APPLICANT: Xue, Aiding J.
; APPLICANT: Wehtman, Tom
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Wang, Dunru
; APPLICANT: Drmanac, Radolje T.
; TITLE OF INVENTION: No. 6743619el
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 802
; CURRENT APPLICATION NUMBER: US/09/
; CURRENT FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 441
; SOFTWARE: pt_FL_genes Version 2.0
; SEQ ID NO 2

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; LENGTH: 1793  
 ; TYPE: DNA  
 ; ORGANISM: Homo  
 ; FEATURE:  
 ; NAME/KEY: CD  
 ; LOCATION: (7  
 US-09-774-528-2

Query Match	5.6%	Score 72.6	DB 3	Length 1793
Best Local Similarity	59.0%	Pred. No. 1.7e-10		
Matches 148	Conservative 0	Mismatches 94	Indels 9	Gaps 1
Qy	263	ATATATGCATACGCGCTTGTCCCTGTGTTCTTTATCATCGGTCTCTTTGGCGTCCTCAT	322	
Db	800	ATATATGCTCTTCTGCTGTGTGCTTCTTCTCTCATGCGCTGTGTGAGCTTCATGAT	859	
Qy	323	TTGCCACCTGCTTAAAGAAGAAGGCTATCGTCTTACAAACAAGAAGCAGAGCAAGATATCGA	382	
Db	860	CTGCCAGTCTTCAAGAAGAAGGCTACCGCTGCCGACCTCGAGGGGCTCTGAGCCCTGA	919	
Qy	383	AGAGGAAAAGGTTGAAAAGATAGAAATTGAATGACAGTGTGAATGAAAACAGTGACACTGT	442	
Db	920	CGATGCCAGCTTCAGCCCCCTGAGGACGATGACATG-----AATGAGGACACAGT	970	
Qy	443	TGGGCAAAATCGTCCACTACATCATATGAAAAATGAAGCGAATGCTGATGTCTTAAAGGCGAT	502	
Db	971	AGAGAGGATTGTTGCGTGTGCATATCCAGAATGAAGCCAAATGCTGAGGCCCTTGAAGGAGAT	1030	
Qy	503	GGTAGCAGATA	513	
Db	1031	GCTGGGGGACA	1041	

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RESULT 5
US-10-120-988-2
Sequence 2, Application US/10120988
Patent No. 6919193
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Goodrich, Ryle
APPLICANT: Liu, Chenghua
APPLICANT: Ren, Feiyao
APPLICANT: Wang, Dunrui
APPLICANT: Dmanac, Radoje T.
TITLE OF INVENTION: No. 6919193el
TITLE OF INVENTION: Polypeptides
FILE REFERENCE: 802CON
CURRENT APPLICATION NUMBER: US/10/
CURRENT FILING DATE: 2002-04-11
PRIOR APPLICATION NUMBER: 09/774,5
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 441
SOFTWARE: pt_FL_genes Version 2.0
SEQ ID NO 2
LENGTH: 1793
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (756)..(1667)
US-10-120-988-2

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	Query Match	Best Local Similarity	59.0%	Score 72.6;	DB 3;	Length 1793;
	Matches 148;	Conservative	0;	Mismatches 94;	Indels 9;	Gaps 1;
Qy	263	ATATATTGCATAGCGCTGTCTCCCTGTGTCTTTTATCATGGGTCCTTTTGGCGTCTCCAT	322			
Db	800	ATATATGCTCTTCCCTGTGTGTCTCTTCTCCATCGGGCTGTAGGCTTCATGAT	859			
Qy	323	TTGCCACCTGCTTTAAGAAAGAGGCTATCGTTGTCAACAAAGACGAGCAAGATATCGA	382			
Db	860	CTTCCACGTGCTCAAGAAAGAGGCTACGCTTCCGCACTCGAGGGGCTCTAGGCTCGA	919			



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; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16044
; LENGTH: 19927
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-16044

Query Match          4.0%; Score 51.4; DB 3; Length 19927;
Best Local Similarity 72.0%; Pred. No. 0.00095;
Matches 67; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 263 ATATATTGCATAGCGCTTGCTCCCTGTTCTTTATCATGGGTCTCTTTGGCGTCCAT 322
Db 532 ATATATGCTCTTCTGCTTGCTGCTGCTTCTTCTTCTCATGGGCTGTGTAGGCTTCATGAT 473

QY 323 TTGCCACCTGCTTAAGAAAGAAAGGCTATCGTTG 355
Db 472 CTGCCACGTGCTCAAGAAAGAGGCTACCGCTG 440

RESULT 9
US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match          3.5%; Score 45; DB 3; Length 4411529;
Best Local Similarity 53.0%; Pred. No. 1.5;
Matches 96; Conservative 0; Mismatches 85; Indels 0; Gaps 0;

QY 1 CCCACGCGTCCGGCCCGCGCTCCGGAGCGGCTCTCCCTTCCGAGCGCGGACGCGGC 60
Db 1573347 CCCAGCGCGCGCGCCCGCGCTGCGCATAGCCCGCGCCCGCCCGCACCGCGGC 1573406

QY 61 GCCCTGGGGAGGAGGCGAAGCGACCGCGCATGGCTCCCGCGGCACTCCCGGGTCCG 120
Db 1573407 TGACCGGTGGCGCGGACCGCGCTTCCCGCGTTCGCGTACAGATCCCGCGGCCCG 1573466

QY 121 CCGTCTAGCCGTGCTGTTCTTGTGGAGGCGCGGTAGTTCGCCGCTGGTGGCTCCG 180
Db 1573467 CCGGCTTGCCTGGTTCCTCCCGCGCCCGCTCGCGCGCGTGGCGCATCAGCGGCGCCCGCAGC 1573526

QY 181 A 181
Db 1573527 A 1573527

RESULT 10
US-09-621-976-10505
; Sequence 10505, Application US/09621976
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; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 10505
; LENGTH: 433
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-621-976-10505

Query Match          3.5%; Score 44.6; DB 3; Length 433;
Best Local Similarity 55.6%; Pred. No. 0.011;
Matches 75; Conservative 5; Mismatches 55; Indels 0; Gaps 0;

QY 78 CGAAGCGACCGCGCGATGGCTCCCGGGCACTCCCGGGGTCCCGCTCTAGCGCGTCT 137
Db 226 CGAAGAGGCTGTGCGAGCCCTDCCCGGSCCTCCCGAGGGCCCCCGCCCTCTCTCTGCC 285

QY 138 GTCTTGTGGAGGCGCGCTGAGTTGCCCGCTGGTGGCTCCGACATGGAGCAGCGC 197
Db 286 TGCTGGGTGGAGGCGCGCATGGGAAGGAGCGCBAGGGGAGCTGGCGCTGGGGGAGCGANMSCC 345

QY 198 ACATTGCACCTCCAGA 212
Db 346 ATGTTGWTTCCTGA 360

RESULT 11
US-09-902-540-8667
; Sequence 8667, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 8667
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; US-09-902-540-8667

Query Match          3.4%; Score 44.4; DB 3; Length 573;
Best Local Similarity 49.6%; Pred. No. 0.015;
Matches 114; Conservative 0; Mismatches 116; Indels 0; Gaps 0;

QY 4 ACCGCTCCGCGCCCGCGCTCCGAGCGGCTCTCCCTTCCGAGCGCGGACGCGCGCC 63
Db 164 ACCCTTCCCGCAAGGCGCGCCAGCCCTGCTCCCGAAGTTCGAGCGGCTGTGGCGAGG 223

QY 64 CTGGGGGAGGAGGCGAAGCGACGCGCATGGCTCCCGCGGGCACTCCCGGGGTCCCGCG 123
Db 224 CGCTGGCGCGGGCGGGATGTCTCGCGGTGGCCCCCGCTGGAGAAAGCTGTGGTGGCGCGC 283

QY 124 TCCTAGCCGCTGCTGTCTTCTGTTGGAGGCGCGGTAGTTCGCCGCTGGTGGCTCCGACA 183
Db 284 TGCTGGCCACGCGGCGGCGCTCTGCCACACCGCGCGGACGCTGTGGAGGCCGCGGAGA 343

QY 184 ATGGAGCAGCCCGCACATTGCACTTCCAGAACAGAGACGACCCCGTCCGCC 233
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Db 344 CGGCTGCGCGCGCGGAGGCTGGAGCGCGCGCGCACCCGACGCGC 393

## RESULT 12

US-09-902-540-918  
; Sequence 918, Application US/09902540  
; Patent No. 6833447  
; GENERAL INFORMATION:  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Wisand, Roger C.  
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
; FILE REFERENCE: 38-10(15849)B  
; CURRENT APPLICATION NUMBER: US/09/902,540  
; CURRENT FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: 60/217,883  
; PRIOR FILING DATE: 2000-07-10  
; NUMBER OF SEQ ID NOS: 16825  
; SEQ ID NO 918  
; LENGTH: 9191  
; TYPE: DNA  
; ORGANISM: Myxococcus xanthus  
US-09-902-540-918

Query Match 3.4%; Score 44.4; DB 3; Length 9191;  
Best Local Similarity 49.6%; Pred. No. 0.069;  
Matches 114; Conservative 0; Mismatches 116; Indels 0; Gaps 0;  
Qy 4 ACGGTCCGCGCGCGCGCTCCGAGCGGCTCTGCTTCCGAGCGCGGAGCGCGGCC 63  
Db 2956 ACCCTTCCGCAAGCGCGCCAGGCGCTCTCCCGAAGTCGAGCGGCTGTGGCGGAGG 3015  
Qy 64 CTGGGGGAGGAGGCGAAGCGACGCGGCGATGGCTCCGCGGSCACTCCCGGGTCCGCG 123  
Db 3016 CGCTGGCGCGCGCGGAGATCTCGGCGGTGGCCCTCGAGAGCTGTGGCGCGCG 3075  
Qy 124 TCCTAGCGCTGTCTTCTGTTGGAGCGCGCGTGGTTCGCGCTGGTCTCCGAGCA 183  
Db 3076 TGCTGGCCACGCGGAGCGCTCTGCCACACCGCGCGGAGCGTCTGGAGCGCGGAGA 3135  
Qy 184 ATGGAGAGCGCGCACATTCACCTCCAGACAGAGACGACCCGCTGCGCC 233  
Db 3136 CGGCTGCGCGCGCGGAGGAGTGGAGCGCGCGCGCGCACCCGACGCGC 3185

## RESULT 13

US-10-012-231A-259  
; Sequence 259, Application US/10012231A  
; Patent No. 6924355  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan I.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2830P1C23  
; CURRENT APPLICATION NUMBER: US/10/012,231A  
; CURRENT FILING DATE: 2002-06-10  
; Prior Application removed - See File Wrapper or Palm  
; NUMBER OF SEQ ID NOS: 477

; SEQ ID NO 259  
; LENGTH: 4563  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: 3635  
; OTHER INFORMATION: unknown base  
US-10-012-231A-259

Query Match 3.3%; Score 43; DB 3; Length 4563;  
Best Local Similarity 53.2%; Pred. No. 0.12;  
Matches 91; Conservative 0; Mismatches 80; Indels 0; Gaps 0;  
Qy 2 CCACGCGTCCCGCGCGCGCTCCGAGCGGCTCTGCTTCCGAGCGCGGAGCGCGCG 61  
Db 398 CCGTGGCGGGGCGAGCGGCTGAGGGCGCGCGGAGCTTGGCGCGCGCGCGCGCG 457  
Qy 62 CCCTGGGGAGGAGGCGAGCGAGCGGCGCATGGCTCCGCGGGGACTCCCGGGGTCCGC 121  
Db 458 GCGCGCGCGCGCGGCGGAGCGCGCGGCGCATGGCGCGCGCGCGCGCGCGCTGGCT 517  
Qy 122 CGTCTAGCGCGCTCTGCTTCTGTTGGAGCGCGCGTGGTTCGCGCGCTGGT 172  
Db 518 CAGCGTGTGCTCGGGCTGCTCTGGGCTTCTGCTGGCGCTCGCGGCTCGT 569

## RESULT 14

US-10-015-389A-259  
; Sequence 259, Application US/10015389A  
; Patent No. 6936436  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan I.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2830P1C48  
; CURRENT APPLICATION NUMBER: US/10/015,389A  
; CURRENT FILING DATE: 2002-06-25  
; Prior Application removed - See File Wrapper or Palm  
; NUMBER OF SEQ ID NOS: 477  
; SEQ ID NO 259  
; LENGTH: 4563  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: 3635  
; OTHER INFORMATION: unknown base  
US-10-015-389A-259

Query Match 3.3%; Score 43; DB 3; Length 4563;  
Best Local Similarity 53.2%; Pred. No. 0.12;  
Matches 91; Conservative 0; Mismatches 80; Indels 0; Gaps 0;  
Qy 2 CCACGCGTCCCGCGCGCGCTCCGAGCGGCTCTGCTTCCGAGCGCGGAGCGCGCG 61  
Db 398 CCGTGGCGGGGCGAGCGGCTGAGGGCGCGCGGAGCTTGGCGCGCGCGCGCGCG 457  
Qy 62 CCCTGGGGAGGAGGCGAGCGAGCGGCGCATGGCTCCGCGGGGACTCCCGGGGTCCGC 121

Db 458 GCGCGCGCCCGCGCGGAGCGCGCGGCGATGCGCGCGCGCGCGCGCGCTGGCT 517  
Qy 122 CGTCCTAGCCGCTGCTCTTCGTGGGAGGCGCGCTGAGTTCCGCCGCTGGT 172  
Db 518 CAGCGTCTGCTCGCGGCTCGTCTGGGCTTCGTGCTGGCTTCGCGGCTCGT 568

RESULT 15

US-10-006-768A-259  
; Sequence 259, Application US/10006768A  
; Patent No. 6936697  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deanoyers, Luc  
; APPLICANT: Eaton, Dan I.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2830PIC10  
; CURRENT APPLICATION NUMBER: US/10/006.768A  
; CURRENT FILING DATE: 2002-03-05  
; NUMBER OF SEQ ID NOS: 477  
; Prior Application removed - See File Wrapper or Palm  
; SEQ ID NO 259  
; LENGTH: 4563  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: 3635  
; OTHER INFORMATION: unknown base  
US-10-006-768A-259

Query Match 3.3%; Score 43; DB 3; Length 4563;  
Best Local Similarity 53.2%; Pred. No. 0.12;  
Matches 91; Conservative 0; Mismatches 80; Indels 0; Gaps 0;  
Qy 2 CCACGCTCCCGCCCGCGGCTCCGAGCGGCTCTGCTTCCGAGCGCGGAGCGCGCG 61  
Db 398 CCGTGGCGGGGCGAGCGGCTGAGGGCGCGCGGAGCTGCGGCGCGCGCGCGCG 457  
Qy 62 CCCTGGGGAGAGGCGAGCGAGCGGCGATGGCTCCGCGGGGCACTCCCGGGTCCGC 121  
Db 458 GCGCGCCCGCGCGGCGGAGCGCGCGGCGCATGCGCGCGCGCGCGCGCGCTGGCT 517  
Qy 122 CGTCCTAGCCGCTGCTCTTCGTGGGAGGCGCGCTGAGTTCCGCCGCTGGT 172  
Db 518 CAGCGTCTGCTCGGCTCGTCTGGGCTTCGTGCTGGCTTCGCGGCTCGT 568

Search completed: February 23, 2006, 15:12:58  
Job time : 274 secs